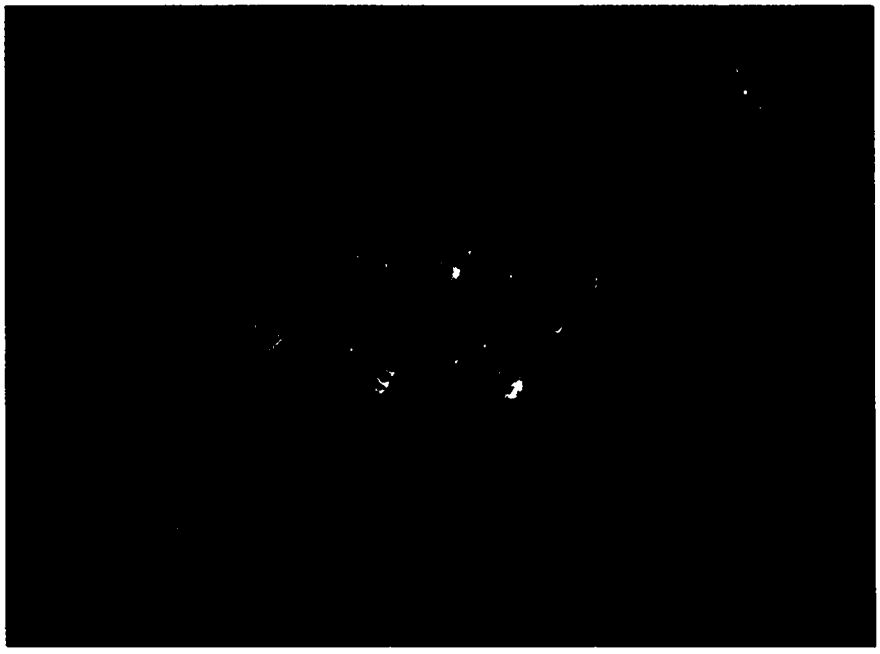
SONY

3-755-193-23 (1)



Trinitron® Color TV

Operating Instructions for 4 models

Before operating the TV, please read this manual thoroughly and keep it for future reference.

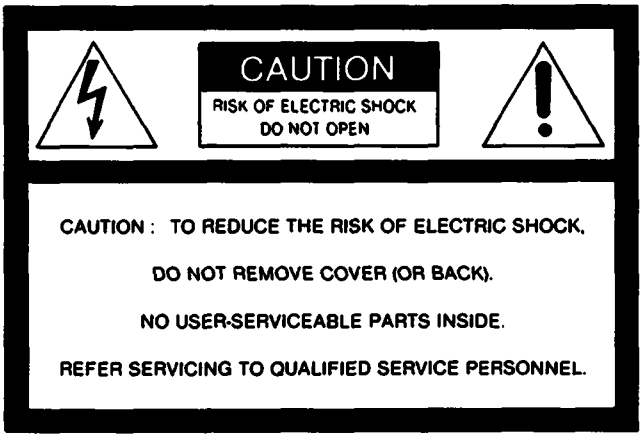
KV-27XBR25 KV-27XBR35
KV-32XBR25 KV-32XBR35

992 by Sony Corporation

Precautions

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION:
TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

ATTENTION:
POUR PREVENIR LES CHOCS ELECTRIQUES, NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

Use of this television receiver for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

Safety

- Operate the TV only on 120 V AC.
- One blade of the plug is wider than the other for safety purposes and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- If you spill or drop anything liquid or solid into the cabinet, unplug the TV and have it checked by qualified personnel before operating it any further.
- Unplug the TV from the wall outlet if you are not going to use it for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

Installing

- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.

Cleaning

Clean the TV with a soft dry cloth. Never use strong solvent such as thinner or benzine, which might damage the finish of the cabinet.

Repacking

Keep the original carton and packing materials to safely transport the TV in the future.

If you have any questions or problems concerning the TV, contact your nearest Sony dealer.

For detailed safety precautions, see the leaflet "IMPORTANT SAFEGUARDS" included with this manual in the vinyl bag.

Note to CATV system installer in the USA
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Owner's Record

The model and serial numbers are located at the rear of the TV. Record these numbers in the spaces provided below. Refer to them whenever you call your Sony dealer regarding this product.

Model No. _____

Serial No. _____

Contents

Preface

Precautions 2
Welcome 4
  Features 4

Chapter 1: Setting Up

Unpacking 5
Locating Controls and Connectors 6
Making Antenna Connections 11
Connecting Other Equipment 13
  Connecting a VCR, video disc player or Camcorder equipped with an S video output jack 13
  Connecting a VCR, video disc player or Camcorder not equipped with an S video output jack 14
  Connecting two VCRs (equipped with an S video output jack) for tape editing 15
  Connecting two VCRs (not equipped with an S video output jack) for tape editing 16
  Connecting an audio system 17
Using the On-Screen Menus 18
  Changing the menu language 20
Setting CABLE ON or OFF 22
Presetting TV Channels 24

Chapter 2: Using Basic Features

Watching TV Programs 30
Using Convenient Features 32
  Muting the sound – MUTING 32
  Keeping the displays on-screen – DISPLAY 32
  Setting the sleep timer – SLEEP 32
  Switching quickly between two channels – JUMP 33
  Using the cordless headphones – HEADPHONES (KV-27XBR35/32XBR35 only) 33
  Previewing the features – DEMO 33
Selecting a Picture and Sound Mode 34

Chapter 3: Using Advanced Features

Watching Two Pictures at Once (PIP) 36
Adjusting the TV 40
  Adjusting the picture 40
  Adjusting the sound 45
Customizing the Screen Display 49
  Setting channel captions – CH CAPTION 49
  Setting VIDEO LABEL 51
Using Timer-Activated Functions 52
  Setting DAYLIGHT SAVING 52
  Setting the clock — CURRENT TIME SET 53
  Setting the ON/OFF TIMER 55
  Setting CHANNEL BLOCK 58
Setting FAVORITE CHANNEL 60
Using the Pre-Programmed Remote Commander 62
  Selecting a VCR mode directly — DIRECT PLAY 67

Appendix

Troubleshooting 69
Specifications 70
Index 71

Welcome

Welcome to the Sony XBR series. By following the instructions in this manual, you will be able to enjoy the advanced technology which brings you useful features and high quality viewing.

About the manual

This manual covers four different models. The illustrations are based on model KV-32XBR35, the model with the most functions, and its Remote Commander RM-Y113. If a particular function does not apply to your model, this will be noted in the manual.

We highly recommend that you read this manual before using your TV, to set up and make connections safely and to make maximum use of the many functions. Then keep the manual handy for future reference.

Features

Sony's unique features

- The multi-band VHF/UHF/CATV tuner lets you receive up to 125 cable channels, for a total of 181 possible off-air and cable channels.
- The built-in Multichannel TV Sound (MTS) decoder lets you receive stereo programs and Second Audio Program (SAP) broadcasts.
- You can receive superior VCR playback by connecting a VCR with an S video output jack to the S VIDEO IN jack.
- You can receive hi-fi sound by connecting an audio system to the audio output jacks.

XBR series special features

- Automatically preset all receivable channels with AUTO PROGRAM.
- Switch quickly between two channels, using JUMP.
- Watch another TV channel, video or cable image as a window picture, using Picture-in-Picture.
- Operate the TV, plus Sony and most other manufacturers' video equipment, a cable converter box and a Sony multi disc player with the supplied Remote Commander, using the Pre-Programmed feature.
- Call up on-screen menus to set time-related functions (ON/OFF TIMER, CHANNEL BLOCK, DAYLIGHT SAVING), to customize the screen (CH CAPTION, VIDEO LABEL) and to adjust the picture and sound.
- Listen to the main picture or window picture sound through the supplied cordless headphones (KV-27XBR35 and KV-32XBR35 only).

XBR series advanced technology

- Dynamic Picture™ system adjusts picture contrast automatically to produce more detail in both bright and dark areas of the picture.
- Velocity Modulation (VM) circuitry produces clean and sharp black and white contrasts.
- Dynamic Focus™ circuitry automatically focuses the scanning electron beam for enhanced sharpness over the entire picture, especially at the corners.
- Trinitone™ control allows you to adjust the picture's color temperature (tint) for the best possible color.

Unpacking

1 Carefully follow the instructions on the outside of the packing carton to unpack the TV.

Notes

- The supplied accessories are packed in the upper part of the carton. Be sure not to throw them away.
- Keep the original carton and packing materials to safely transport the TV in the future.

2 Check to make sure that all the supplied accessories are included:

- Universal Remote Commander (1)
  (RM-Y113: KV-27XBR35/32XBR35
  RM-Y112: KV-27XBR25/32XBR25)
  with 2 size AA (R6) EVEREADY batteries
- Cordless headphones (1) (KV-27XBR35/32XBR35 only)

If any accessories are missing, contact your dealer.

3 Place the TV in a cool, dry place where the ventilation openings at the sides are not blocked.

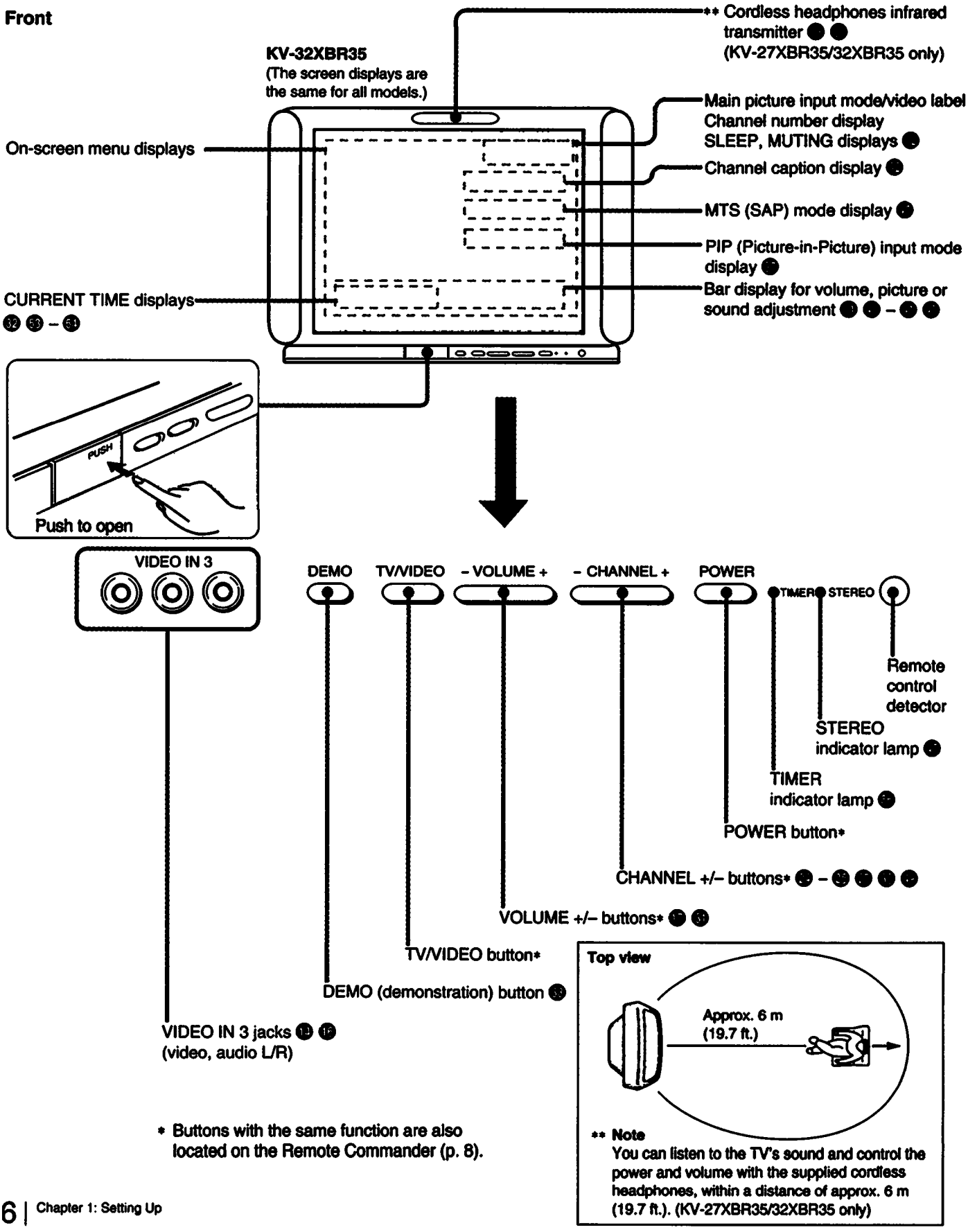
4 Plug the TV power cord into an AC 120 volt power outlet.

For further precautions, see p. 2.

Locating Controls and Connectors

For details, see the pages indicated by the numbered black circles ●.

Front

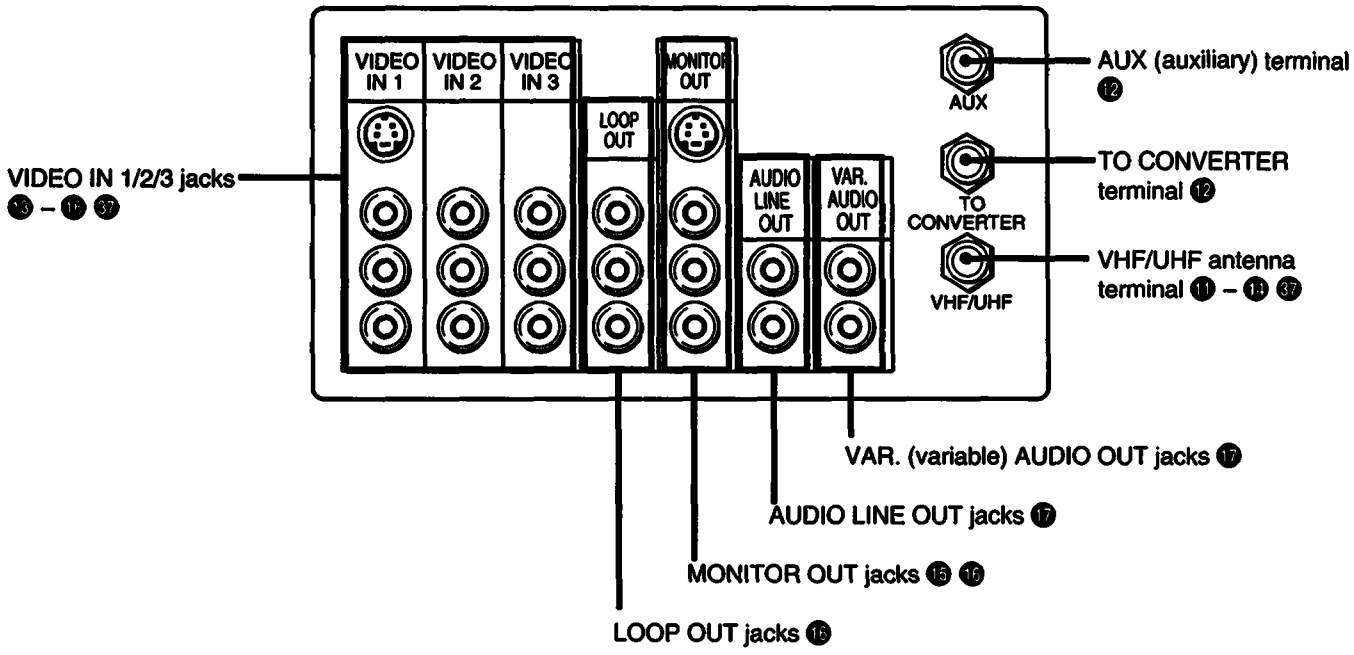


* Buttons with the same function are also located on the Remote Commander (p. 8).

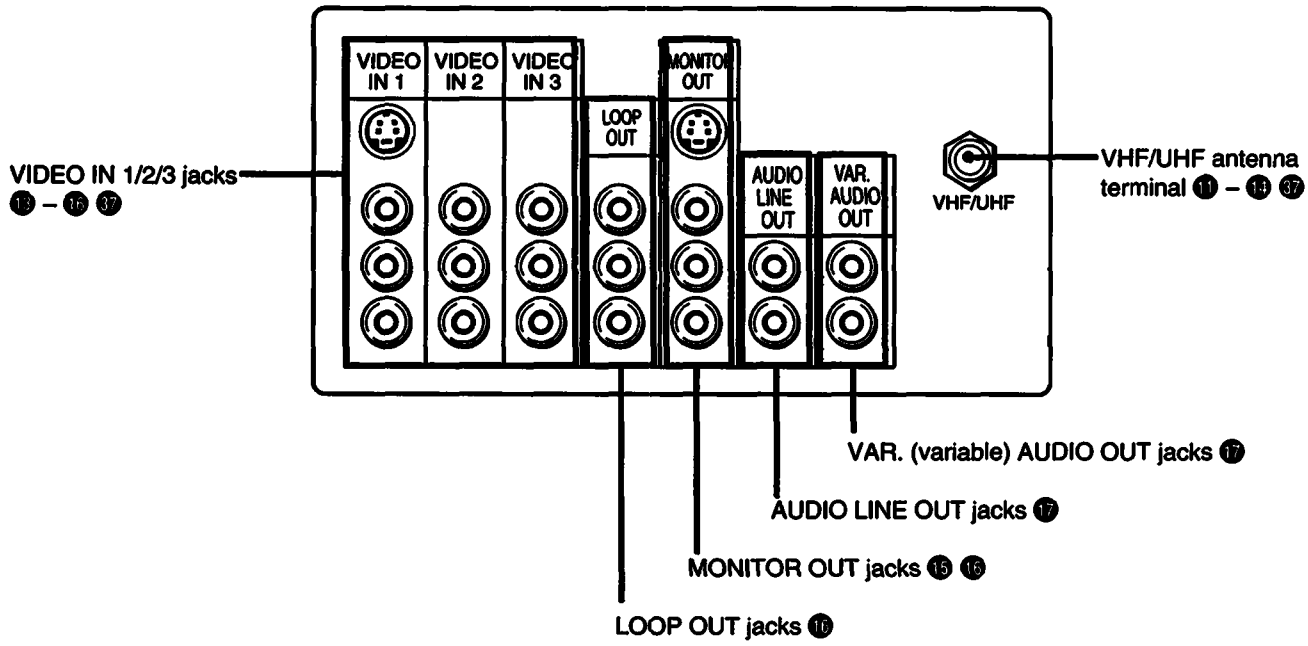
** **Note**
You can listen to the TV's sound and control the power and volume with the supplied cordless headphones, within a distance of approx. 6 m (19.7 ft.). (KV-27XBR35/32XBR35 only)

Rear

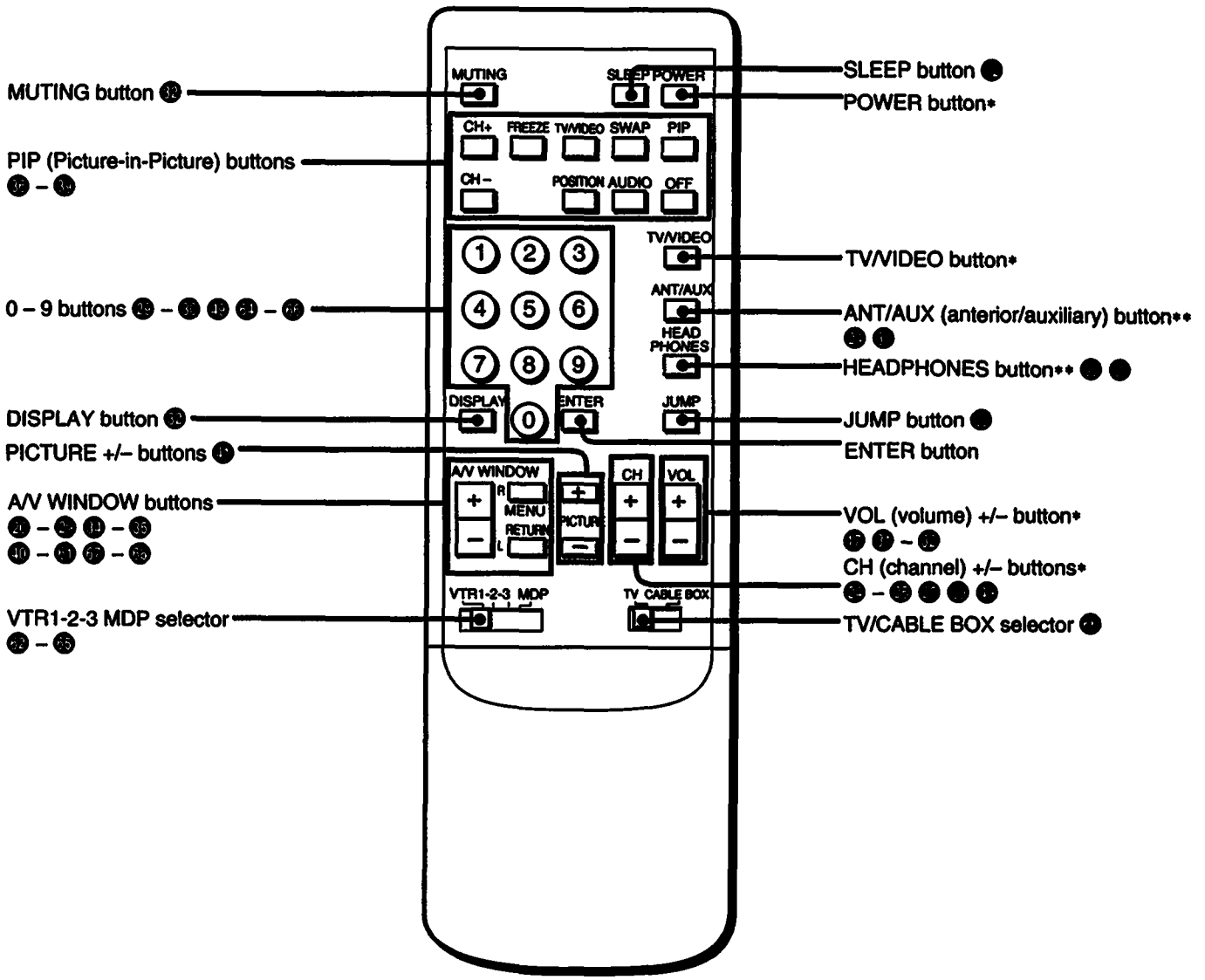
KV-27XBR35/32XBR35



KV-27XBR25/32XBR25



Remote Commander (with the video control cover closed)



RM-Y113

RM-Y113: **KV-27XBR35**
KV-32XBR35

RM-Y112: **KV-27XBR25**
KV-32XBR25

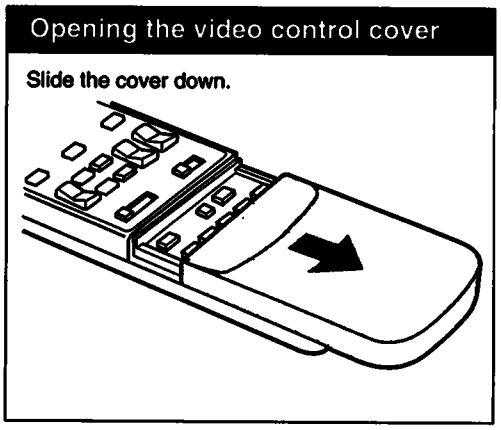
* Buttons with the same function are also located on the TV (p. 6).

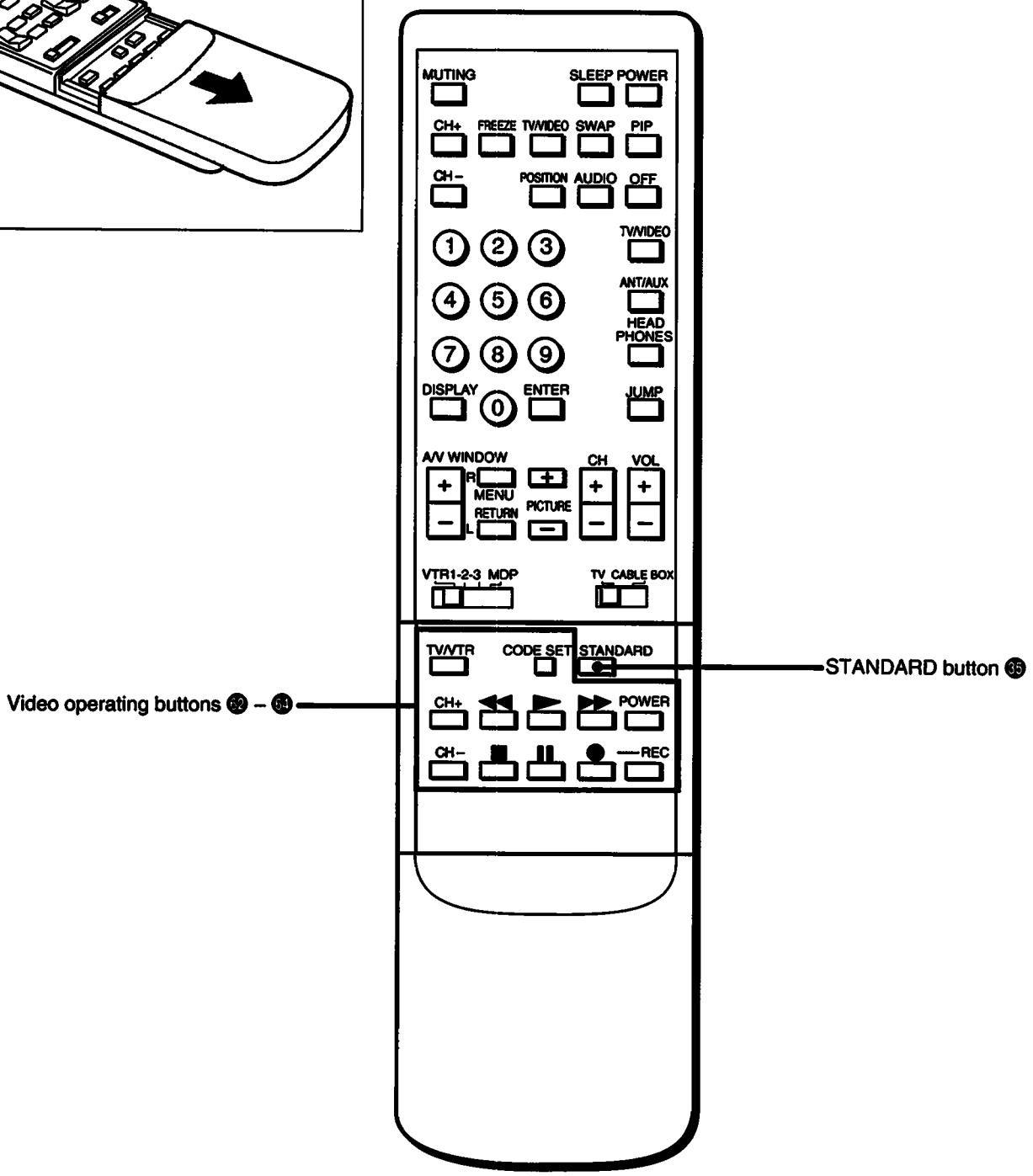
** Buttons not included on RM-Y112.

Note

If the TV/CABLE BOX selector is set to CABLE BOX, the Remote Commander is able to control a connected cable box, not the TV (p. 66). Set the selector to TV to control the TV with the Remote Commander.

Remote Commander (with the video control cover open)

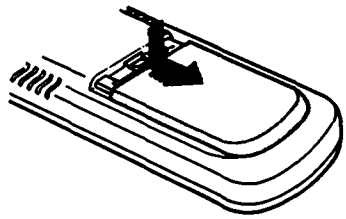




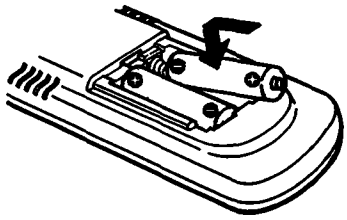
RM-Y113

Installing batteries in the Remote Commander

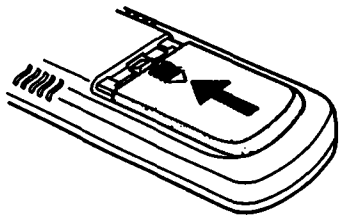
1 Push open the lid (rear of the Remote Commander).



2 Install two AA size (R6) batteries so that the ⊕ and ⊖ ends are inserted as shown.



3 Replace the lid.

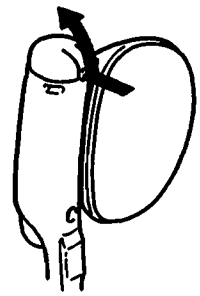


About battery life
Under normal operation, batteries will last up to half a year. If the Remote Commander does not operate properly, the batteries might be worn out. Replace both of them with new ones.

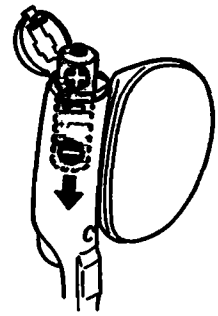
To avoid damage from possible battery leakage
Remove the batteries if you do not plan to use the Remote Commander for a fairly long time.

Installing batteries in the cordless headphones (KV-27XBR35/32XBR35 only)

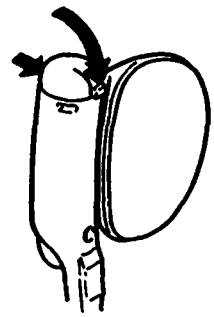
1 Press open the battery compartment lids on both sides.



2 Install two AA size (R6) batteries, one in each side, so that the ⊕ and ⊖ ends are inserted as shown.



3 Close the lids on both sides.



Making Antenna Connections

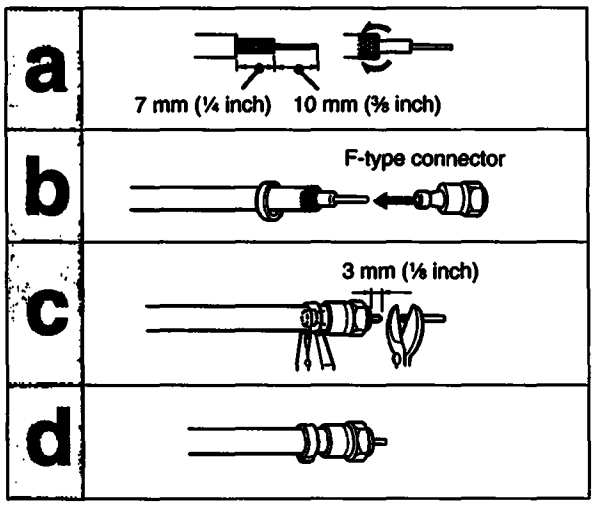
Although you can use either an indoor or outdoor antenna with the TV, an outdoor antenna will provide you with better picture quality.
You can receive cable TV by connecting a cable supplied by your local cable company.

Connecting a VHF, UHF or VHF/UHF combination antenna , or CATV cable

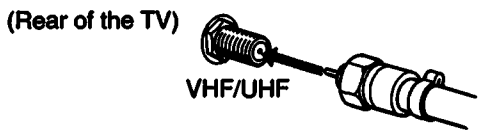
Check your antenna cable type. If you have 75-ohm coaxial cable (round), attach an F-type connector (not supplied). If you have 300-ohm twin-lead cable (flat), attach a 300-75 ohm adaptor (not supplied).

Using 75-ohm coaxial cable (round)

1 Prepare the end of the cable by attaching the F-type connector as shown below.



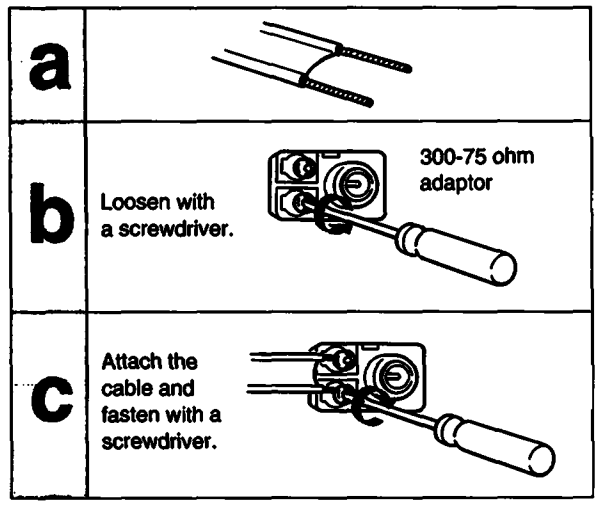
2 Plug the connector into the VHF/UHF terminal at the rear of the TV.



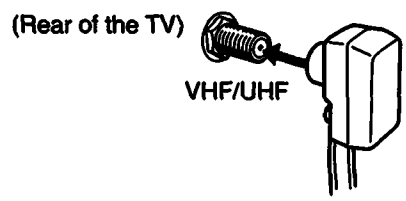
* Most combination antennas are equipped with a signal splitter. Remove the splitter and attach the appropriate connector.

Using 300-ohm twin-lead cable (flat)

1 Prepare the end of the cable by attaching the 300-75 ohm adaptor as shown below.

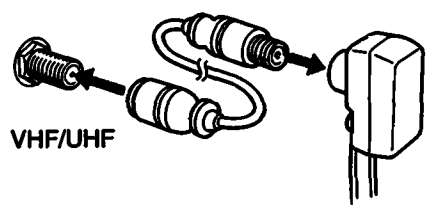


2 Plug the adaptor into the VHF/UHF terminal at the rear of the TV.

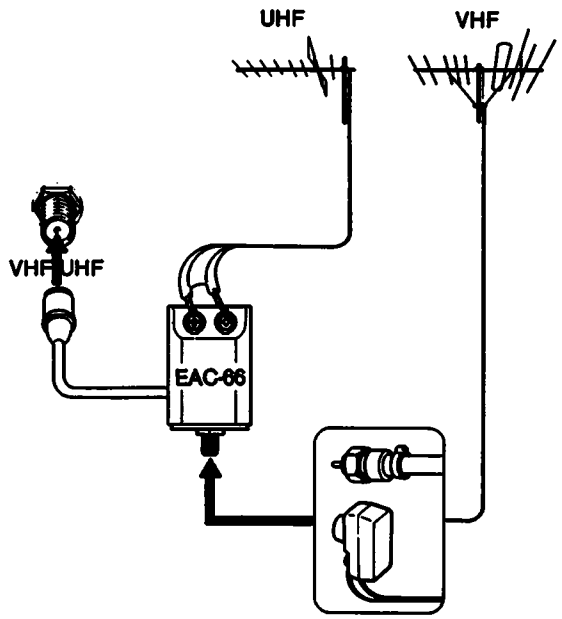


Connecting the supplied antenna cable
For better picture quality, connect the supplied antenna cable as shown below, so that the 300-ohm twin-lead cable can be separated a distance from the TV.

(Rear of the TV)



Connecting both VHF and UHF antennas



Use an EAC-66 U/V mixer (not supplied).

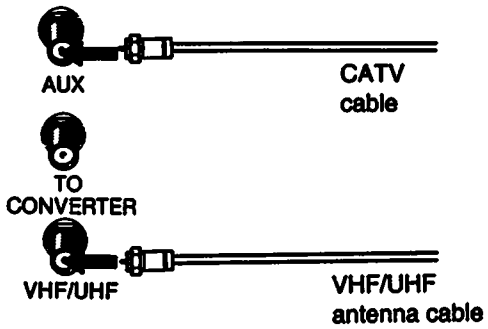
1 Prepare the VHF antenna cable using the appropriate connector (p. 11).

2 Connect the cable to the U/V mixer.

3 Connect the U/V mixer to the VHF/UHF terminal.

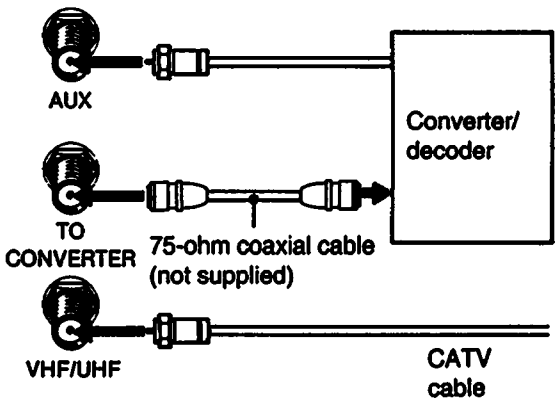
When you use the U/V mixer
Snow and noise may appear in the picture when viewing cable TV channels over 37 (W + 1).

Connecting both VHF/UHF antennas and a CATV cable (KV-27XBR35/32XBR35 only)



Note
Do not connect anything to the TO CONVERTER terminal in this case.

Connecting a cable with a pay cable TV system converter/decoder (KV-27XBR35/32XBR35 only)



Pay cable TV systems use scrambled or encoded signals and require special converters (decoders) in addition to the normal cable connection.

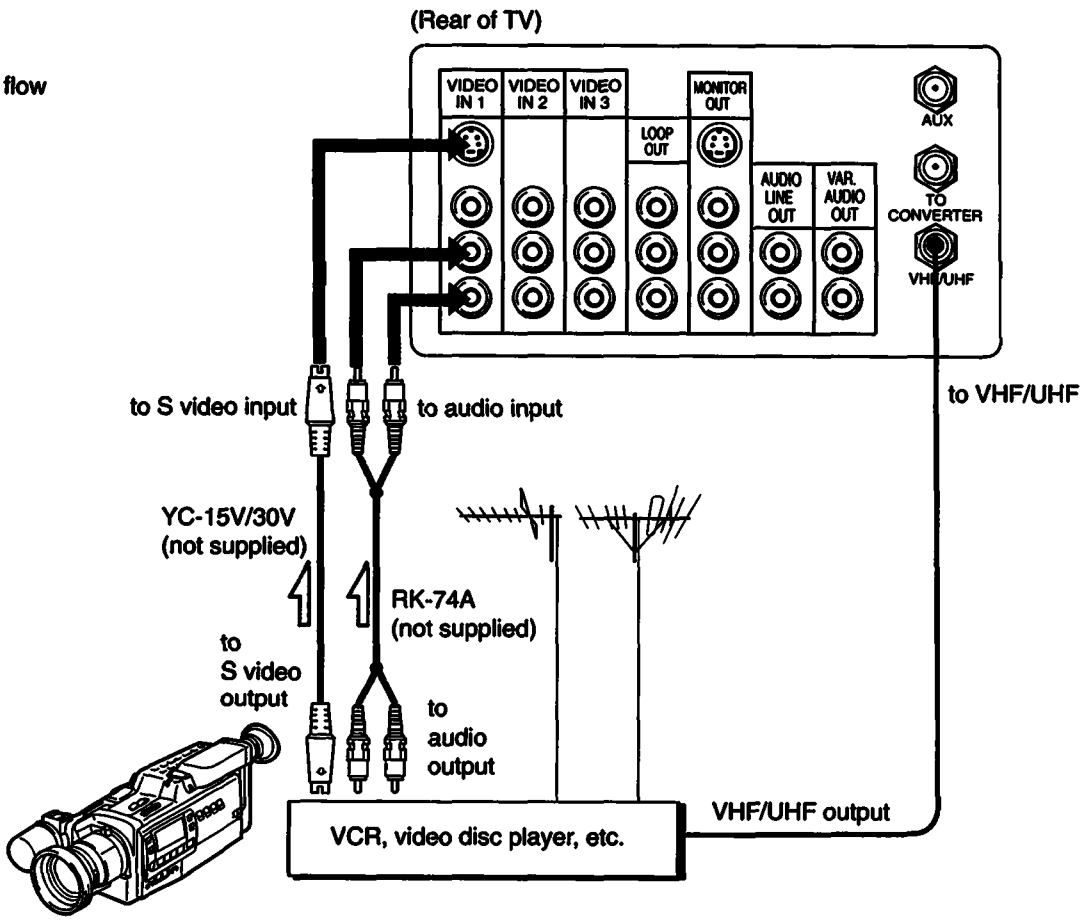
* The special converter/decoder will be supplied by the cable company.

Connecting Other Equipment

After making these connections, you will be able to do the following:

- View the playback of video tapes
- Record TV programs
- Record one TV program while viewing another program
- If you have model KV-27XBR25 or KV-32XBR25, these connections allow you to watch two TV programs at once, using a window picture.

Connecting a VCR, video disc player or Camcorder equipped with an S video output jack



Preparing for use

1 Turn on the TV.

2 Set S-VIDEO to "ON" (p. 44).

3 Press TV/VIDEO on the TV or on the Remote Commander so that "VIDEO 1" appears on the screen.

To return to TV mode

Press TV/VIDEO on the TV or on the Remote Commander so that a channel number appears on the screen.

Operating the equipment

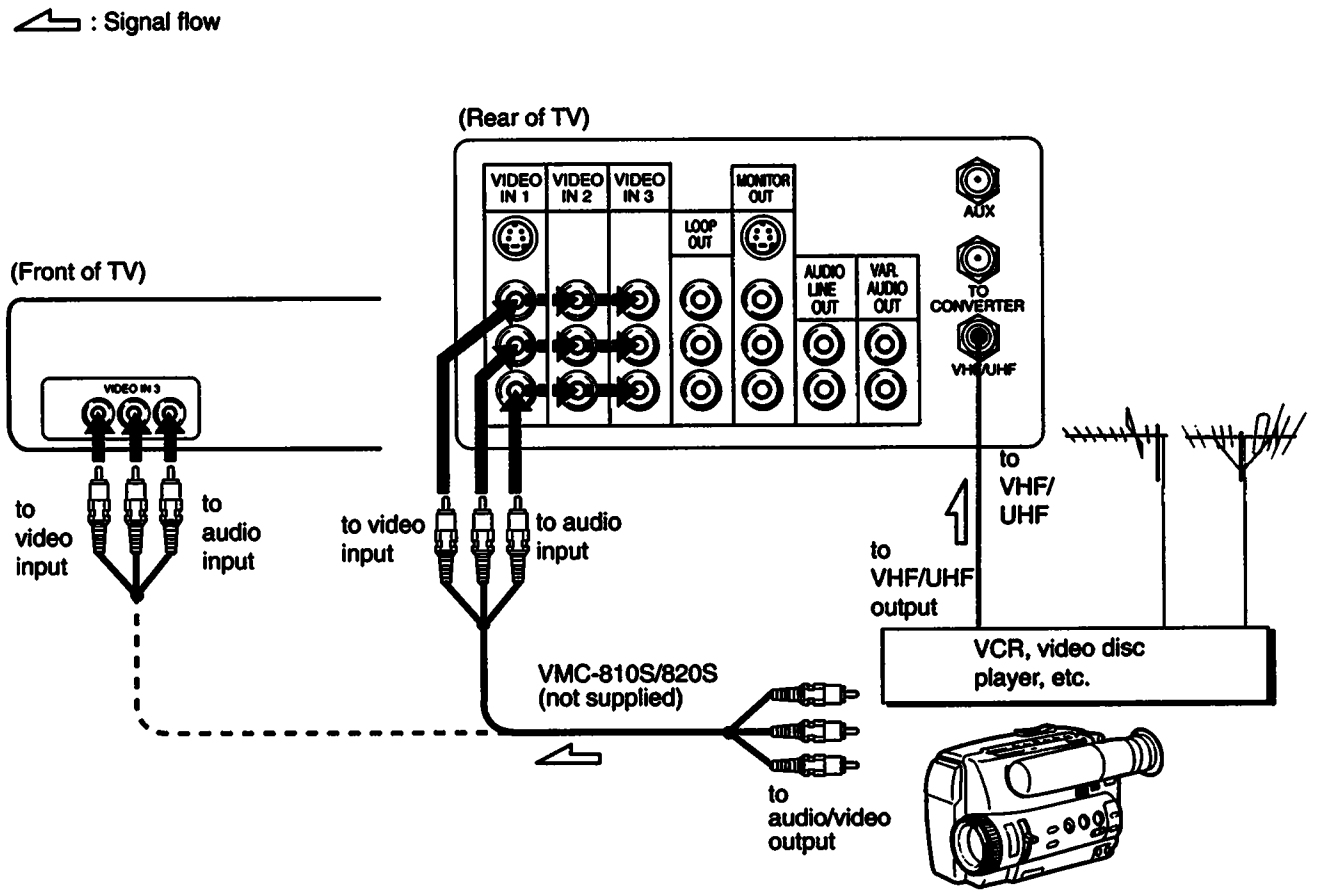
To operate the video equipment, refer to the instruction manual that comes with the equipment.

You can operate a Sony VCR or video disc player, or a non-Sony VCR with the supplied Remote Commander. For details, see "Using the Pre-Programmed Remote Commander" (pp. 62 – 68).

About S video input

Video input and output signals can be separated into Y (luminance or brightness) and C (chroma or color) signals. Usually these two signals are combined in a VCR and sent as one signal to a TV. Separation of the Y and C signals prevents them from interfering with one another, thereby improving picture (especially color) quality.
This TV is equipped with S video input jacks through which these separated signals can be input directly.

Connecting a VCR, video disc player or Camcorder not equipped with an S video output jack



Preparing for use

1 Turn on the TV.

2 Press TV/VIDEO on the TV or on the Remote Commander so that "VIDEO 1," "VIDEO 2" or "VIDEO 3" appears on the screen.
VIDEO 1: for equipment connected to VIDEO IN 1
VIDEO 2: for equipment connected to VIDEO IN 2
VIDEO 3: for equipment connected to VIDEO IN 3

Operating the equipment

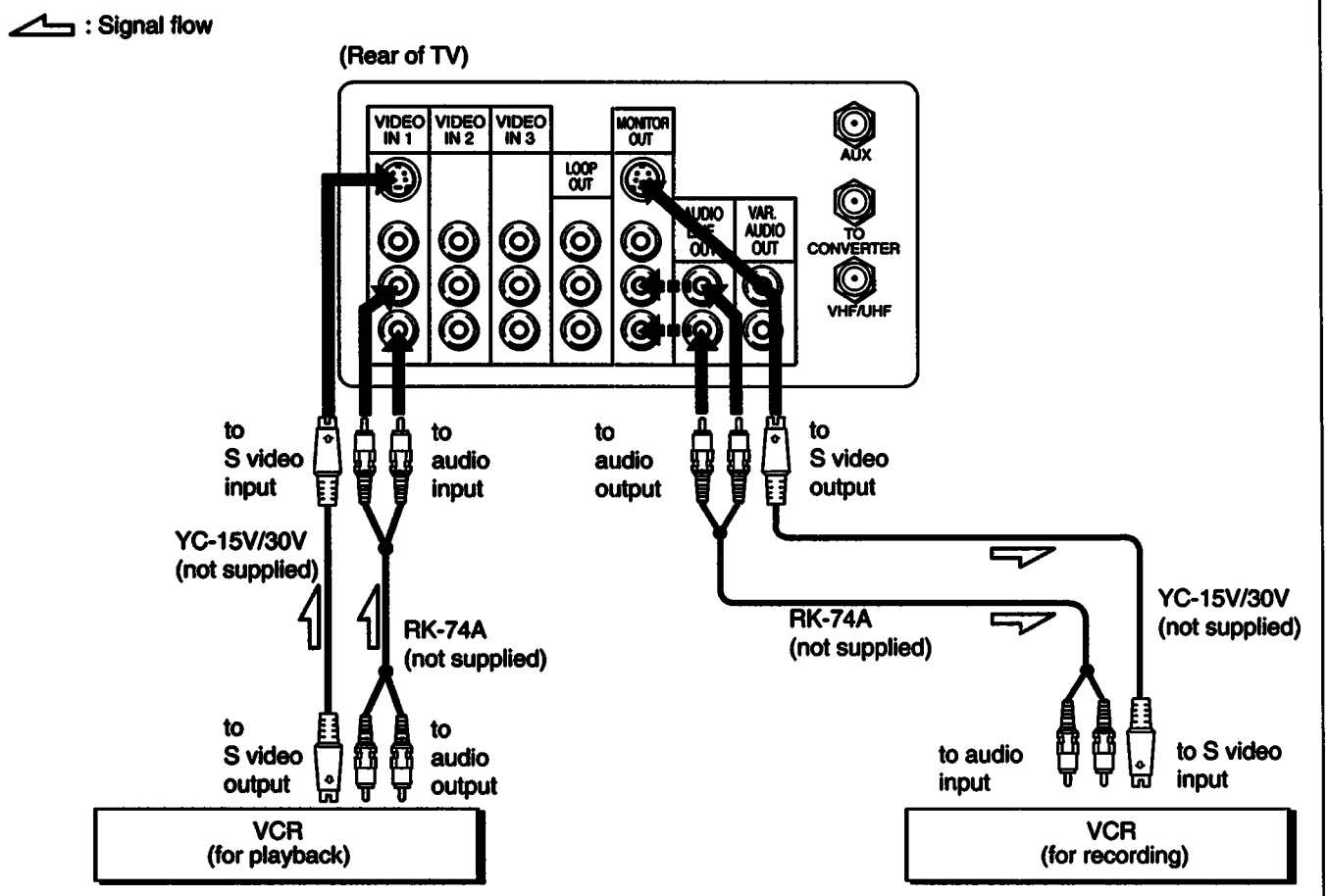
Same as p. 13.

To return to TV mode
Press TV/VIDEO on the TV or on the Remote Commander so that a channel number appears on the screen.

Notes

- If you try to use equipment that is connected to the front and rear VIDEO IN 3 jacks at the same time, the picture will be distorted. Be sure you turn off one piece of equipment first.
- You can label each of the video input modes (p. 51).
- You do not need to select a video mode when you use the direct play function (pp. 67 – 68).
- If you connect a monaural VCR, connect the audio output of the VCR to the L (MONO) jack of VIDEO IN (1, 2 or 3). The monaural sound will be heard from both speakers.

Connecting two VCRs (equipped with an S video output jack) for tape editing



Preparing for use/Operating the equipment

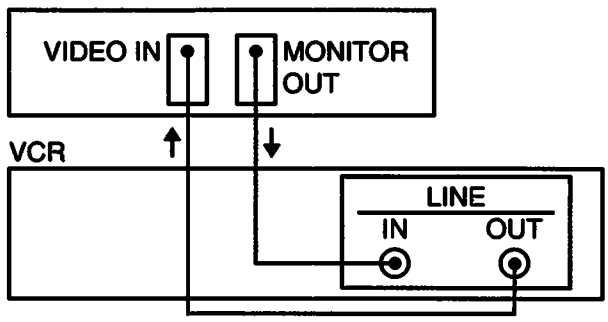
Same as p. 13.

Caution
Video tapes and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws.

Notes

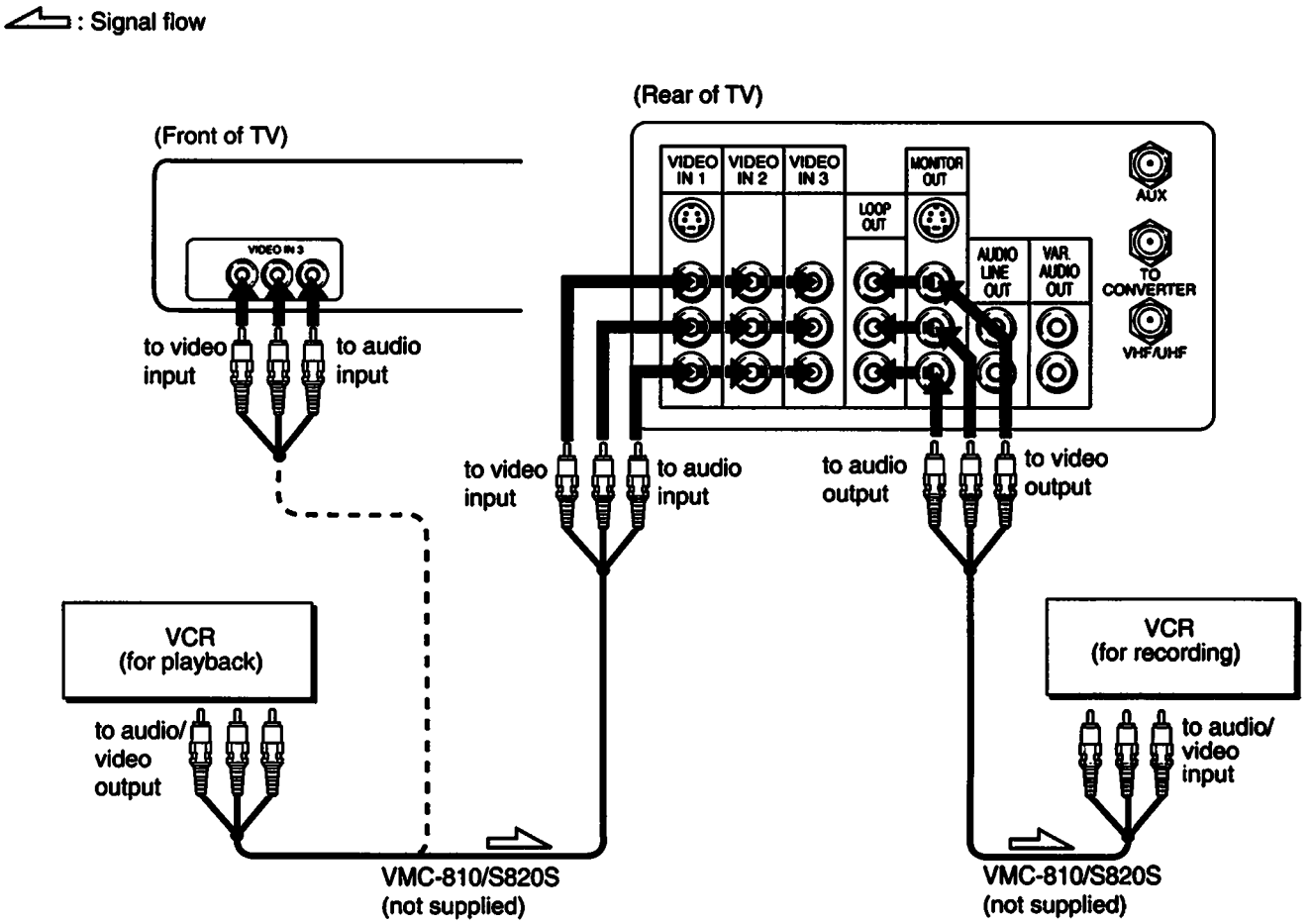
- **Do not** change the input signal while editing through MONITOR OUT, or the output signal will also change.
- When connecting a single VCR to the TV, **do not** connect the MONITOR OUT jacks at the rear of the TV to the VCR's line input, while at the same time connecting from the TV's VIDEO IN jacks to the VCR's line output, as shown below.

(Rear of the TV)



The above type of connection is not a problem when you connect from the line input of one VCR, and from the line output of a second VCR.

Connecting two VCRs (not equipped with an S video output jack) for tape editing



Preparing for use

1 Turn on the TV.

2 Press TV/VIDEO on the TV or on the Remote Commander so that "VIDEO 1," "VIDEO 2" or "VIDEO 3" appears on the screen.
VIDEO 1: for equipment connected to VIDEO IN 1
VIDEO 2: for equipment connected to VIDEO IN 2
VIDEO 3: for equipment connected to VIDEO IN 3

Note
If you try to use the equipment connected to the front and rear VIDEO IN 3 jacks at the same time, the picture will be distorted. Be sure you turn off one piece of equipment first.

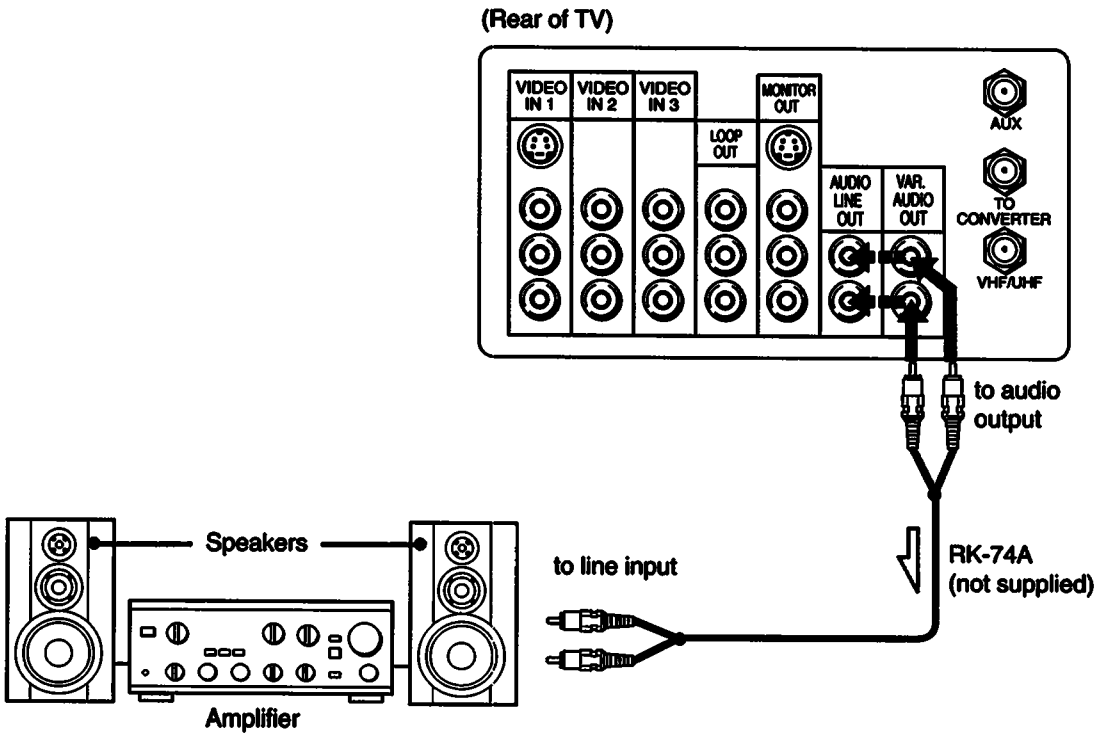
Watching a different image while duplicating

The LOOP OUT jacks only output the signal from VIDEO IN 3.
If you connect a VCR for playback to the VIDEO IN 3 jacks, and a VCR for recording to the LOOP OUT jacks to duplicate your recorded tapes, you can watch input images different from the image being output for recording.

To watch a different input image
Press TV/VIDEO on the TV or on the Remote Commander to select the input image you want to watch.

Connecting an audio system

: Signal flow



Set the amplifier's function to line input.

Preparing for use

Display the mode set menu and set SPEAKER to "OFF" to cut off the TV speaker sound (p. 48), and listen to the TV's sound solely through the audio system speakers.

Adjusting the sound level

If you connect your stereo system to VAR. AUDIO OUT, leave the amplifier volume, bass and treble controls at their mid position, and adjust the level with the VOLUME +/– buttons on the TV or the VOL +/– buttons on the Remote Commander.

If you connect your stereo system to AUDIO LINE OUT, adjust the speaker volume with the stereo amplifier controls.

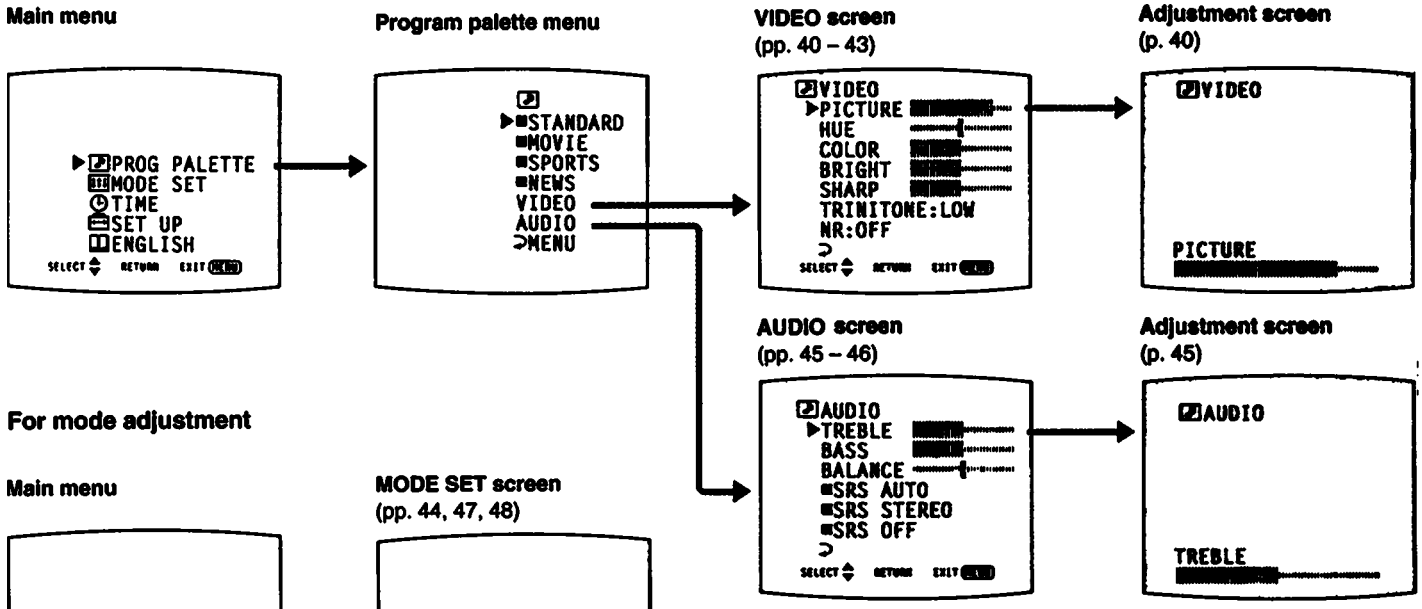
Note

By connecting to VAR. AUDIO OUT, you can adjust the bass, treble and balance, or select an SRS (Sound Retrieval System) or an MTS (Multichannel TV Sound) mode, using the on-screen menus (pp. 45 – 47).

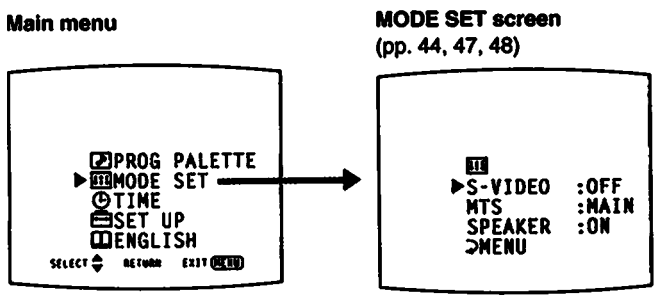
Using the On-Screen Menus

The following flow chart shows the different levels of on-screen menus that you can use to make various adjustments and settings. See the indicated pages for instructions on using each feature.

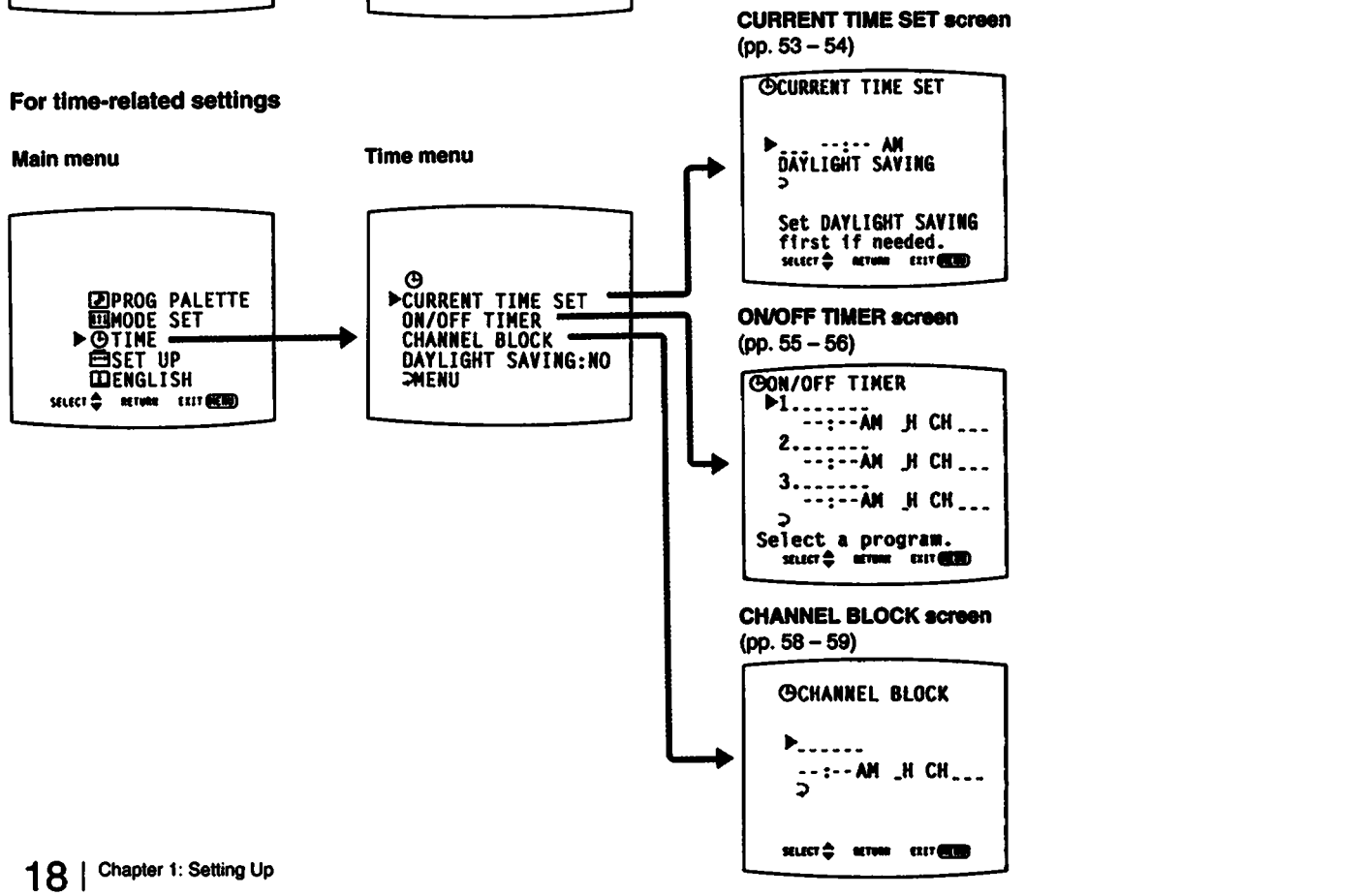
For picture and sound quality adjustment



For mode adjustment

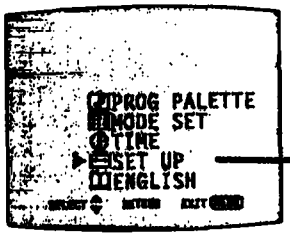


For time-related settings

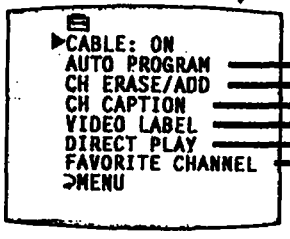


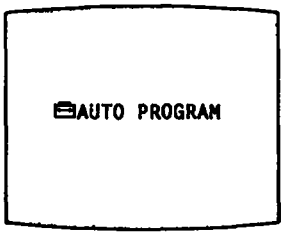
For presetting and other functions

Main menu

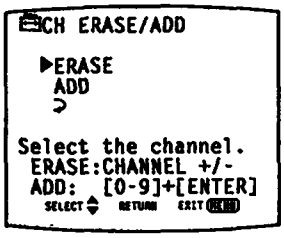


SET UP screen

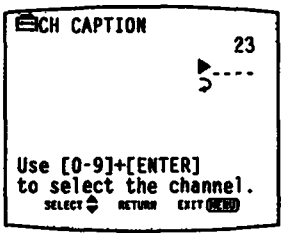




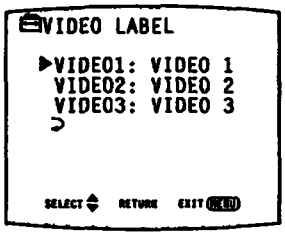
AUTO PROGRAM screen
(p. 25)



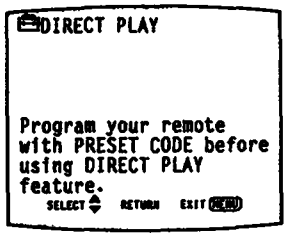
CH (channel) ERASE/ADD screen
(pp. 27, 29)



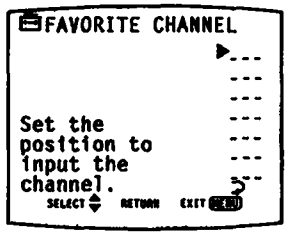
CH (channel) CAPTION screen
(pp. 49 – 50)



VIDEO LABEL screen
(p. 51)



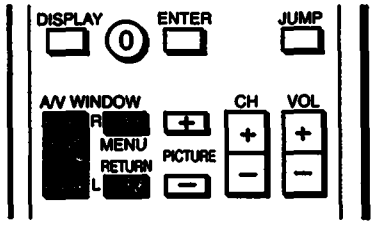
DIRECT PLAY screen
(pp. 67 – 68)



FAVORITE CHANNEL screen
(pp. 60 – 61)

Navigating through the menus

Remote Commander



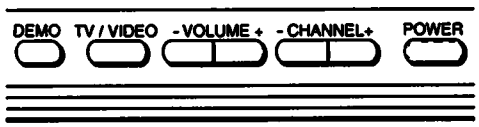
To display the main menu
Press MENU.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to " ⊃MENU."
Then press RETURN.

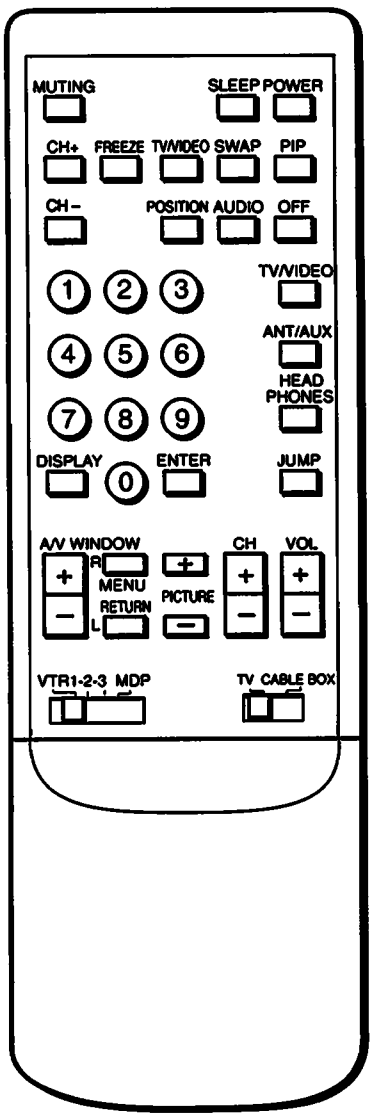
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Note
The menus disappear automatically, if you do not press a button within 90 seconds.



Front of TV

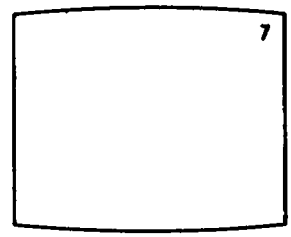


RM-Y113

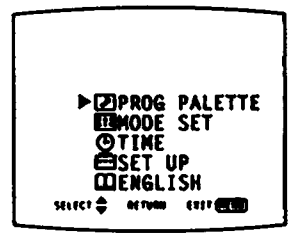
Changing the menu language

The menu language is factory-set to ENGLISH. Follow these instructions to change the menu language to Spanish or French, or back to English.

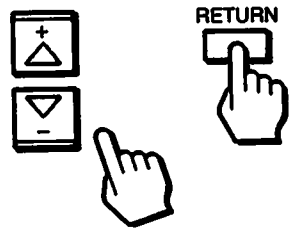
1 Press POWER on the TV or on the Remote Commander to turn on the TV.

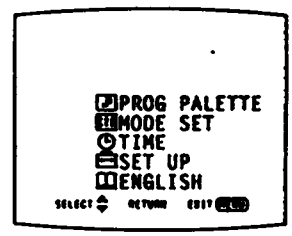


2 Press MENU.
The main menu appears.

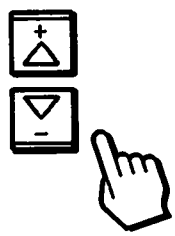


3 Press A/V WINDOW +/– until the cursor points to "ENGLISH."
Then press RETURN.
The language display turns red.





4 Press A/V WINDOW +/– to select the language.
Each time you press A/V WINDOW +/–, the "ESPAÑOL," "FRANÇAIS" and "ENGLISH" menus appear.



Note
Certain parts of the "ESPAÑOL" and "FRANÇAIS" menus remain in English.

5 Press RETURN.
The language is selected.

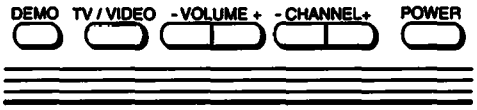
Spanish menu

To return to the normal screen
Press MENU on the Remote Commander.

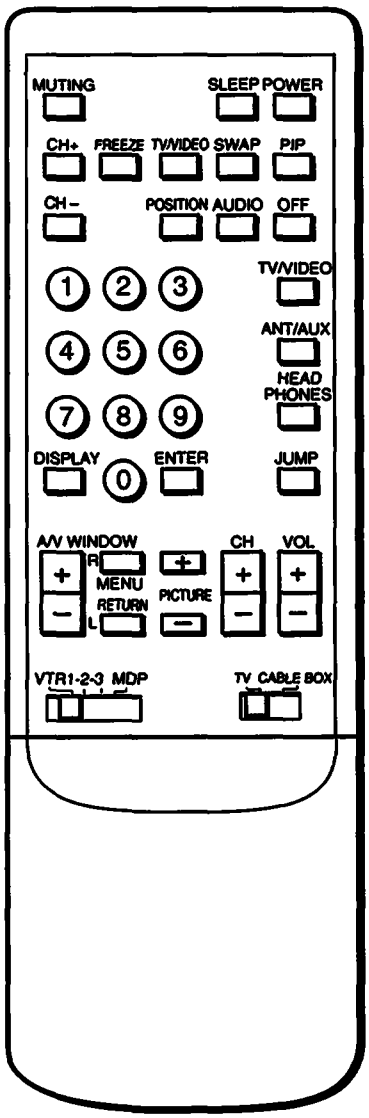
Notes concerning menus

- During PIP (Picture-in-Picture) mode, the on-screen menus may overlap the window picture.
- Screen displays (VOLUME, MUTING, CHANNEL, etc.) may overlap the on-screen menus.
- The menus disappear automatically, if you do not press a button within 90 seconds.

Setting CABLE ON or OFF



Front of TV

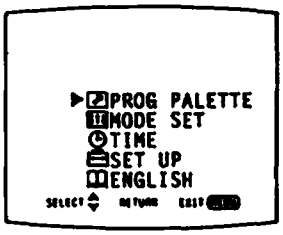


RM-Y113

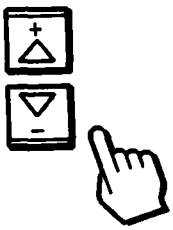
If you have cable connected to the TV, follow the steps below to set the cable connection on or off. Set CABLE OFF to preset or watch VHF or UHF channels, and set CABLE ON to preset or watch cable TV channels.

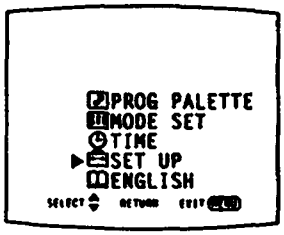
Note
If the TV is in video mode, the "CABLE" display is shaded and cannot be selected. Press TV/VIDEO on the TV or on the Remote Commander to change to TV mode.

1 Press MENU.
The main menu appears.

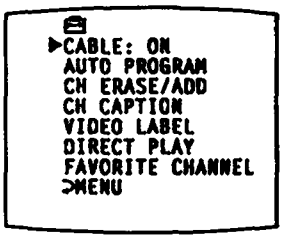


2 Press A/V WINDOW +/– until the cursor points to "SET UP."

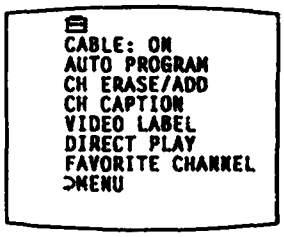




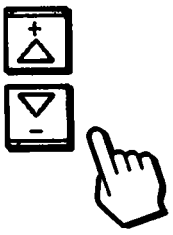
3 Press RETURN.
The set up menu appears, and the cursor points to "CABLE."

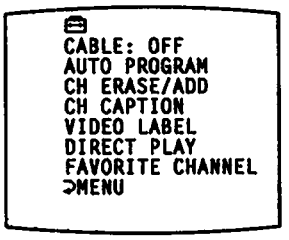


4 Press RETURN again.
The mode display turns red.

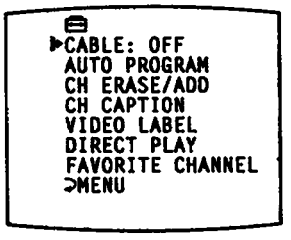


5 Press A/V WINDOW +/– to select "ON" or "OFF."





6 Press RETURN.
The setting is complete.



To return to the previous menu
Press A/V WINDOW +/– until the cursor points to " ➲ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Cable TV channel chart*
Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

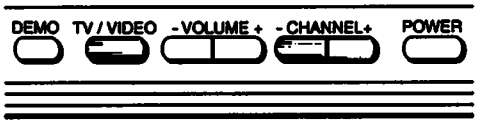
Number on this TV	Corresponding CATV channel
1	A-8
5	A-7
6	A-6
14	A
15	B
16	C
17	D
18	E
19	F
20	G
21	H
22	I
23	J
24	K
25	L
26	M
27	N
28	O
29	P
30	Q
31	R
32	S
33	T
34	U
35	V
36	W
37	W+1
38	W+2
39	W+3
•	•
•	•
•	•
•	•
•	•
93	W+57
94	W+58
95	A–5
96	A–4
97	A–3
98	A–2
99	A–1
100	W+59
101	W+60
102	W+61
•	•
•	•
•	•
•	•
•	•
123	W+82
124	W+83
125	W+84

Check with your local cable TV company for more complete information on the available channels.

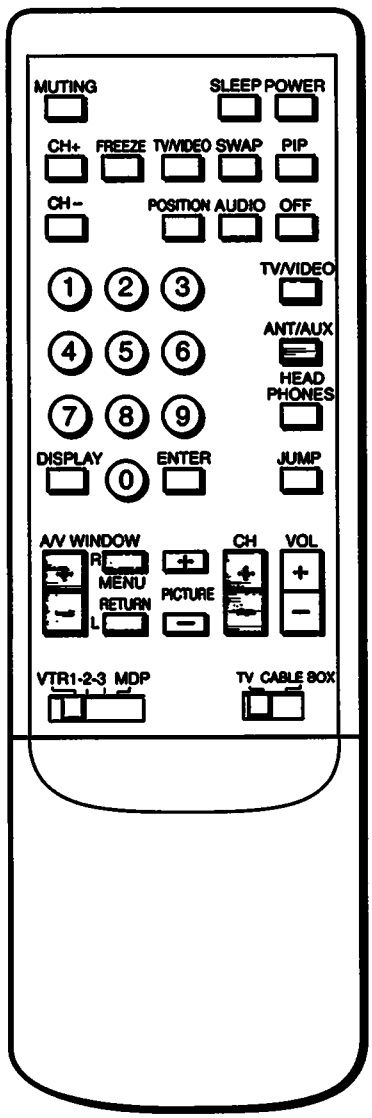
* The designation of the cable TV channels conforms to the EIA/NCTA recommendation.

Presetting TV Channels

By presetting TV channels to the TV, you can select channels by pressing CHANNEL +/– on the TV or CH +/– on the Remote Commander.



Front of TV



RM-Y113

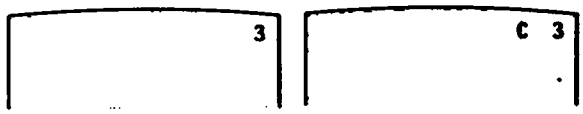
Presetting all receivable channels automatically

Follow these instructions to preset all the receivable VHF, UHF or cable TV channels to the TV.

Notes

- If the TV is in video mode, the "AUTO PROGRAM" display is shaded and cannot be selected. Press TV/VIDEO on the TV or on the Remote Commander to change to TV mode.
- Perform auto programming during the day rather than late at night, when some channels may not be broadcasting.

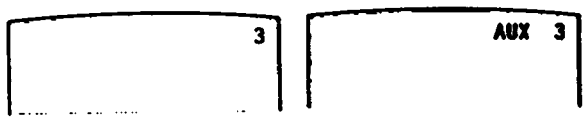
1 Set the cable connection on or off (pp. 22 – 23) to select the type of channel you want to preset, VHF/UHF or cable TV.



To preset VHF or UHF channels

To preset cable TV channels

Press ANT/AUX to select the type of channel you want to preset, VHF/UHF/ regular cable TV or pay cable TV (KV-27XBR35/32XBR35 only).

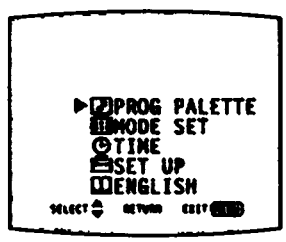


To preset VHF, UHF or regular cable TV channels

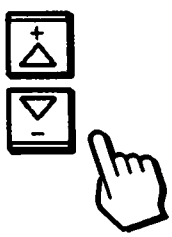
To preset pay cable TV channels

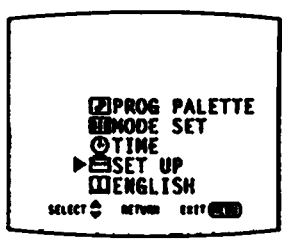
2 Press MENU.

The main menu appears.



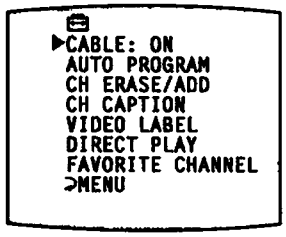
3 Press A/V WINDOW +/– until the cursor points to "SET UP."



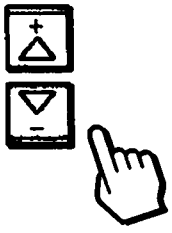


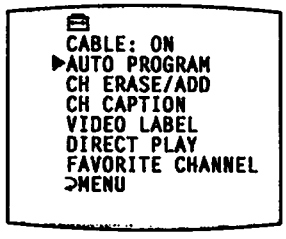
4 Press RETURN.

The set up menu appears.



5 Press A/V WINDOW +/– until the cursor points to "AUTO PROGRAM."

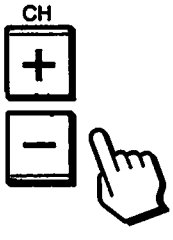




6 Press RETURN.

"AUTO PROGRAM" appears on the screen and receivable channels (other than the channels already preset) are preset in numerical sequence. The channels previously preset will not remain in the TV's memory.
When no more channels are found, auto programming stops and the screen returns automatically to the set up menu.

7 Press CH +/– to check or view the preset channels.



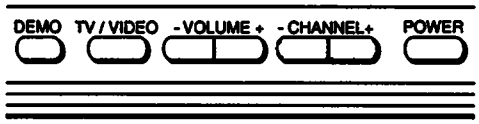
Receivable channels for this TV
VHF: 2 – 13
UHF: 14 – 69
Cable: 1 – 125

To select TV channels without presetting
Press the 0 – 9 buttons and ENTER.

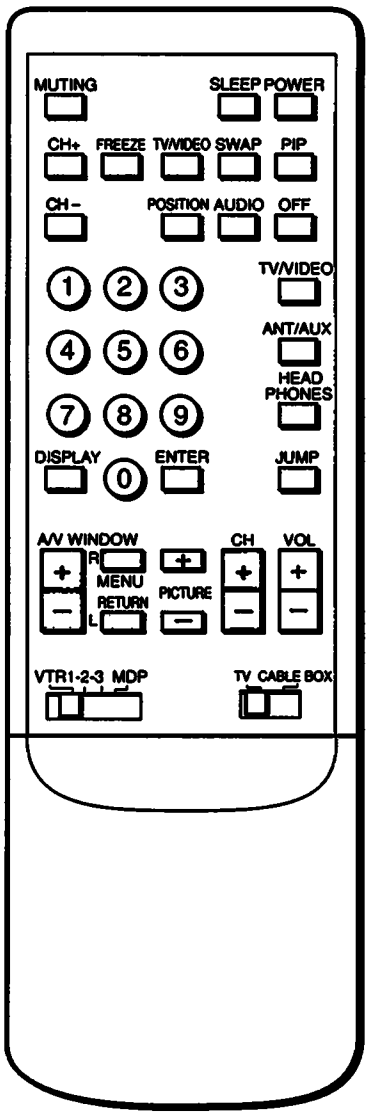
To return to the previous menu
Press A/V WINDOW +/– until the cursor points to " ⊃ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.



Front of TV



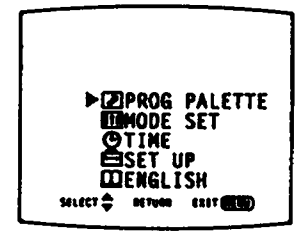
RM-Y113

Erasing TV channels

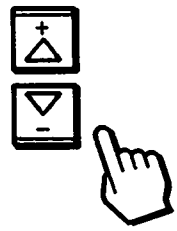
Follow these instructions to erase unnecessary TV channels, so that when you press CH +/–, the channel(s) are skipped.

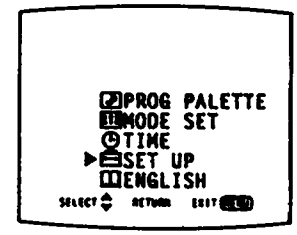
1 Press MENU

The main menu appears.



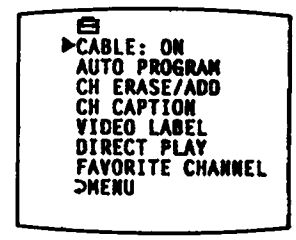
2 Press A/V WINDOW +/– until the cursor points to "SET UP."



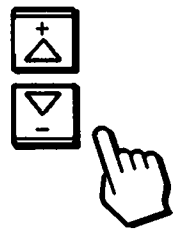


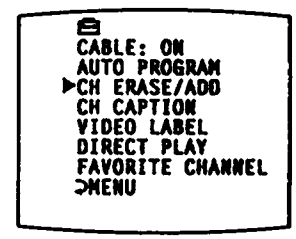
3 Press RETURN

The set up menu appears.

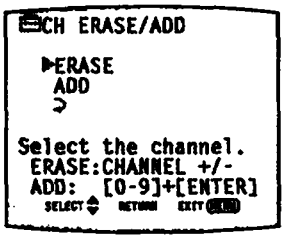


4 Press A/V WINDOW +/– until the cursor points to "CH ERASE/ADD."

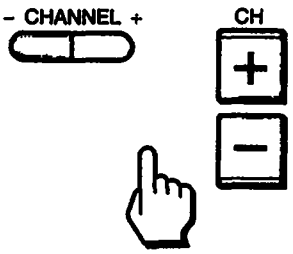


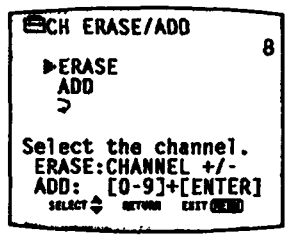


5 Press RETURN.
The CH ERASE/ADD screen appears, and the cursor points to "ERASE."

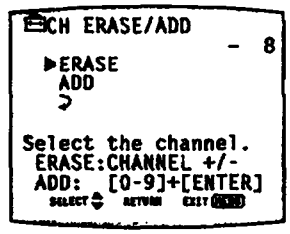


6 Press CHANNEL +/– on the TV or CH +/– on the Remote Commander to select the channel you want to erase.
The channel display appears.





7 Press RETURN.
A "–" sign appears in front of the channel number display, indicating that the channel is erased; then the CH ERASE/ADD screen automatically reappears.



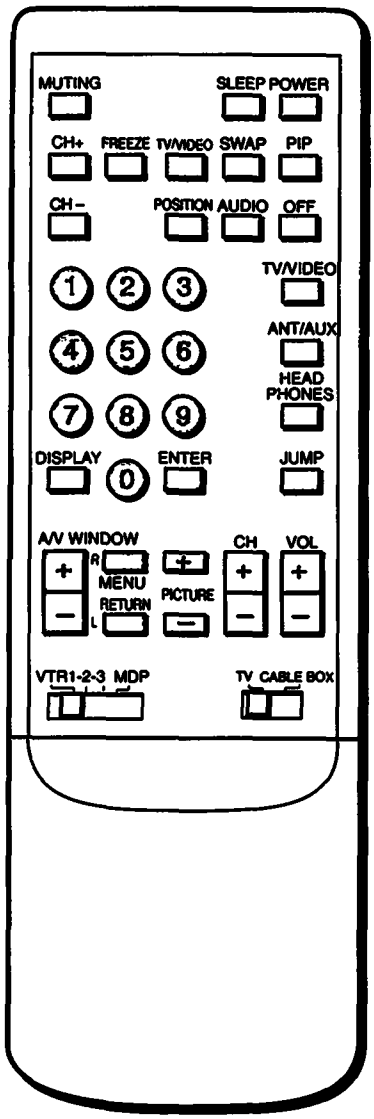
To erase another channel
Repeat steps 6 – 7.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to " ↩ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Note
If you erase a VHF or UHF channel, the same number cable TV channel is also erased (and vice versa).

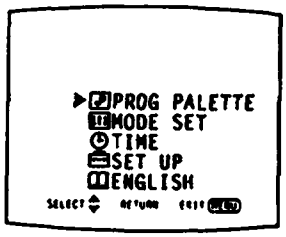


RM-Y113

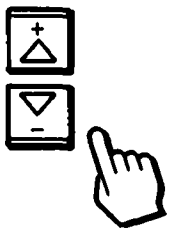
Adding TV channels

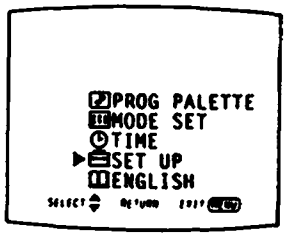
Follow these instructions to add TV channels one by one to the selection memory, or to replace a TV channel you previously erased (pp. 26 – 27).

1 Press MENU
The main menu appears.

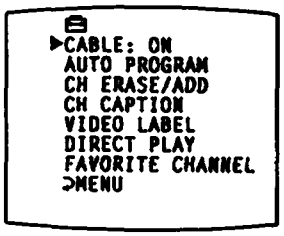


2 Press A/V WINDOW +/– until the cursor points to "SET UP."

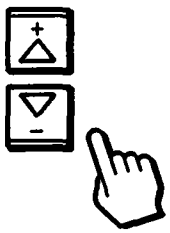


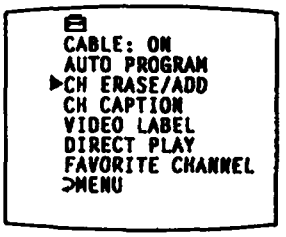


3 Press RETURN.
The set up menu appears.

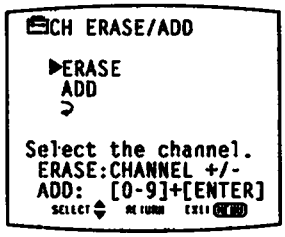


4 Press A/V WINDOW +/– until the cursor points to "CH ERASE/ADD."

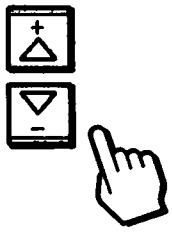


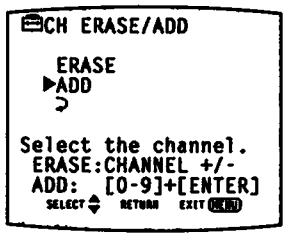


5 Press RETURN.
The CH ERASE/ADD screen appears.

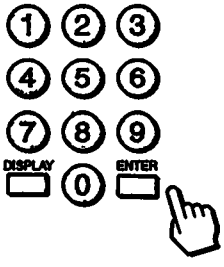


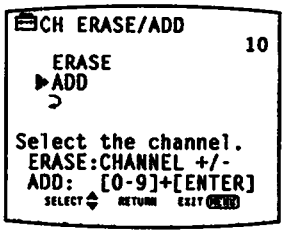
6 Press A/V WINDOW +/– until the cursor points to "ADD."



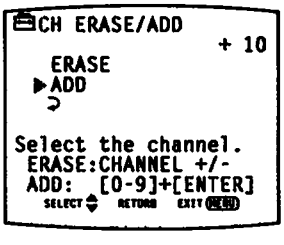


7 Press 0 – 9 and ENTER on the Remote Commander to select the channel you want to add.
The channel display appears.





8 Press RETURN
A "+" sign appears in front of the channel number display, indicating that the channel is added; then the CH ERASE/ADD screen automatically reappears.



To add another channel
Repeat steps 7 – 8.

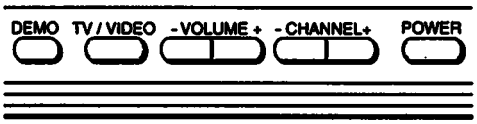
To return to the previous menu
Press A/V WINDOW +/– until the cursor points to " ↩ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

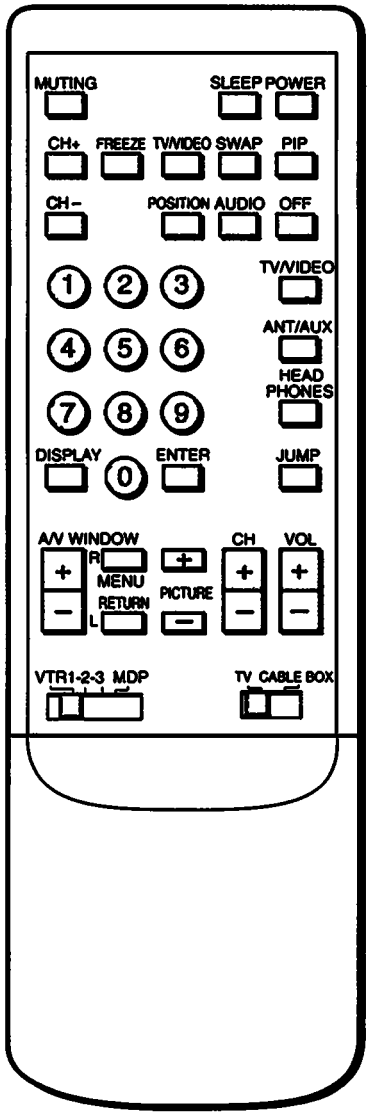
To return to the normal screen
Press MENU on the Remote Commander.

Note
If you add a VHF or UHF channel, the same number cable TV channel is also added (and vice versa).

Watching TV Programs



Front of TV



RM-Y113

Make sure that the TV/CABLE BOX selector on the Remote Commander is set to TV, in order to control the TV with the Remote Commander.

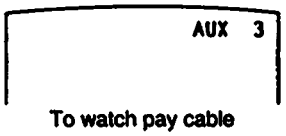
1 Set the cable connection on or off (pp. 22 – 23) to select the type of channel you want to watch, VHF/UHF or cable TV.

To watch VHF or UHF channels

To watch cable TV channels

Press ANT/AUX to select the type of channel you want to watch, VHF/UHF/ regular cable TV or pay cable TV (KV-27XBR35/32XBR35 only).

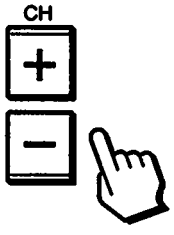
To watch VHF, UHF or regular cable TV channels



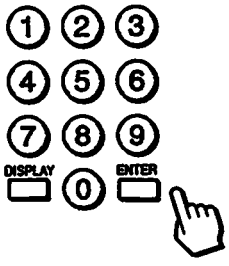
To watch pay cable TV channels

2 Select a channel in one of the following two ways:

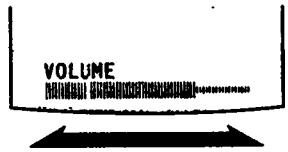
To scan the preset channels in numerical sequence, press CH +/–.



To select a channel directly, press 0 – 9 and then ENTER.
For example, to select channel 10, press 1, 0 and ENTER.



3 Press VOL +/– to adjust the volume.



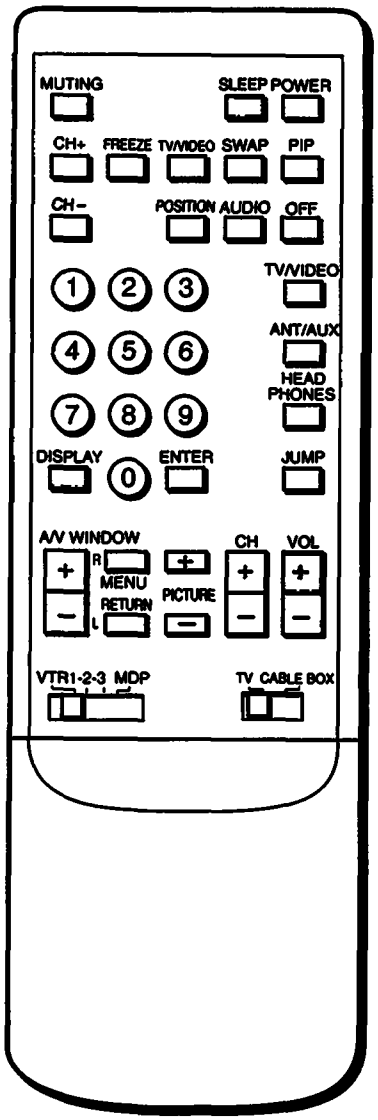
Press + to increase the volume.
Press – to decrease the volume.

If VIDEO 1, VIDEO 2 or VIDEO 3 appears on the screen
Press TV/VIDEO on the TV or on the Remote Commander until a TV channel number appears.

To select channels more easily
Set FAVORITE CHANNEL (pp. 60 – 61).

To turn off the TV
Press POWER on the TV or on the Remote Commander.

Using Convenient Features



RM-Y113

Muting the sound — MUTING

Press MUTING.
"MUTING" appears on the screen.

To restore the sound
Press MUTING again, or press VOL +.

Keeping the displays on-screen — DISPLAY

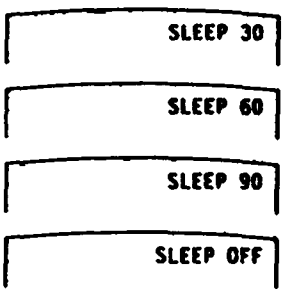
Press DISPLAY.
All the existing displays appear: channel number, channel caption (if set), MTS mode ("SAP" only), window picture input mode, and the current time ("AM" or "PM" disappears after about three seconds).

To turn off the displays
Press DISPLAY again.

Setting the sleep timer — SLEEP

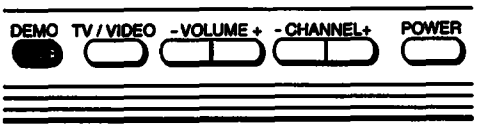
The sleep timer turns off the TV automatically after the amount of time you select.

Press SLEEP.
Each time you press SLEEP, the time increments "30," "60," "90" and "OFF" mode appear in sequence.

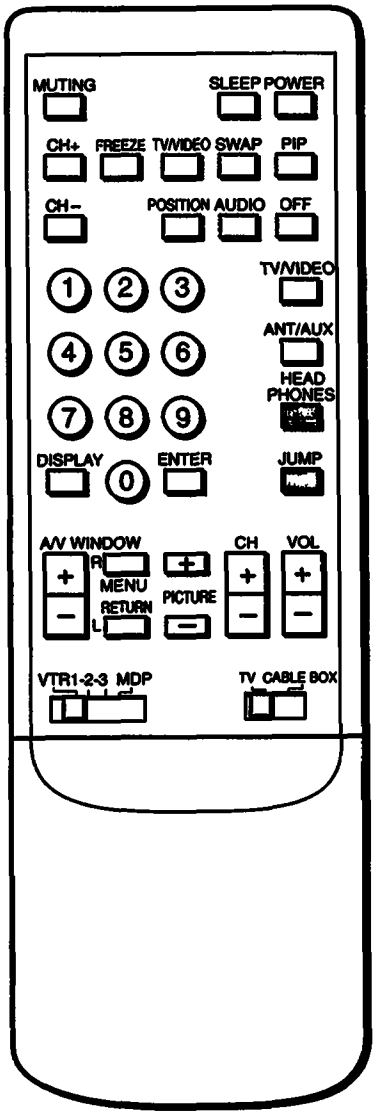


A red "SLEEP" display appears about one minute before the TV goes off.

To cancel the setting.
Press SLEEP until OFF mode appears.
A green "SLEEP OFF" display appears for about three seconds.
OR
Turn the TV off.
The sleep timer setting is cancelled.



Front of TV



RM-Y113

Switching quickly between two channels — JUMP

Use this function to keep track of two programs alternately.

To recall the channel you were watching previously
Press JUMP.

To switch back to the first channel
Press JUMP again.

Using the cordless headphones — HEADPHONES (KV-27XBR35/32XBR35 only)

Turning on the headphones does not affect the sound from the TV speakers. If you want to listen to the sound from the headphones only, turn off the TV speaker sound by pressing VOLUME – on the TV or VOL – on the Remote Commander.

To turn on the headphones
Press HEADPHONES.
The ∩ display appears for about three seconds.

To control the headphones volume/
To turn the headphones power on or off
Use the controls on the headphones.

To turn off the headphones
Press the headphones power button first, then press HEADPHONES.

To use the headphones to listen to sound from a window picture (PIP function)
See "Selecting the headphones audio source" (p. 39).

Notes

- When using the headphones, you cannot adjust sound quality or select sound modes (pp. 45 – 47) or use the muting feature (p. 32).
- After using the headphones, if you press HEADPHONES without pressing the headphones power button first, you may hear noise. This does not indicate a malfunction.
- To prevent hearing damage due to sudden or prolonged excessive volume, do not raise the headphones volume too high, while listening.

Previewing the features — DEMO

Press DEMO.
Functions and menus are displayed one by one.

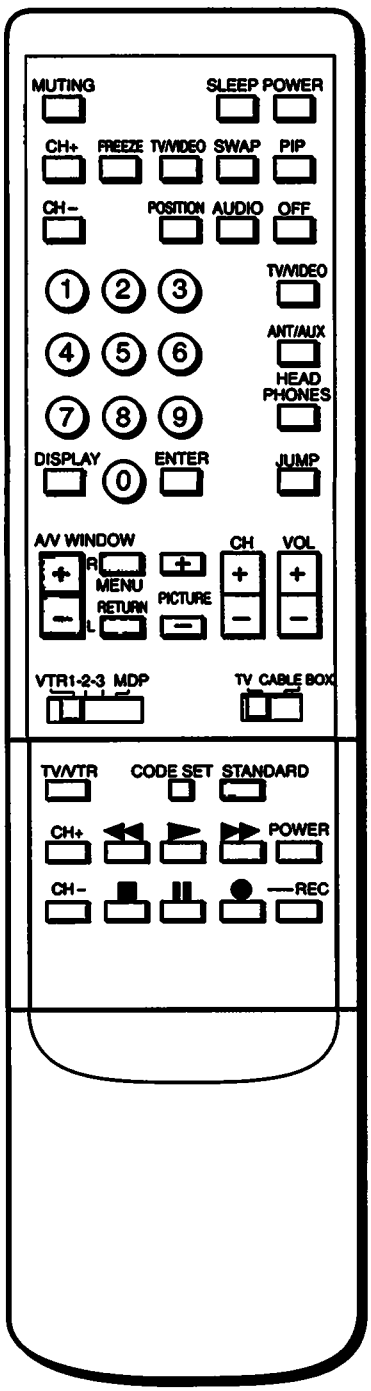
To restart DEMO from the beginning
Press DEMO again.

To stop DEMO
Press any button.

Selecting a Picture and Sound Mode

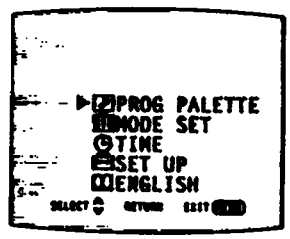
This TV features four modes (STANDARD, MOVIE, SPORTS, NEWS) that offer different picture and sound qualities. Choose the one that best suits the type of program that you want to watch.

Example: Select MOVIE mode for picture and sound that gives you the sense of being in a movie theater.

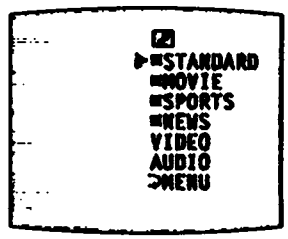


RM-Y113
(with video control cover open)

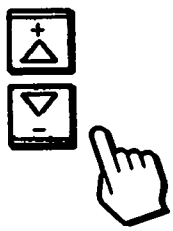
1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

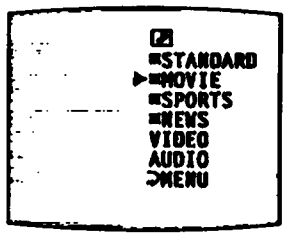


2 Press RETURN.
The program palette menu appears.

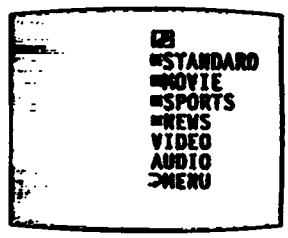


3 Press A/V WINDOW +/– until the cursor points to "MOVIE."





4 Press RETURN.
The "MOVIE" display turns green, indicating that MOVIE mode is selected.



To select a different mode
Repeat steps 3 – 4.

Selecting standard mode (without using the menus)

Follow these instructions to select standard mode without using the on-screen menus.

Press STANDARD.

When you select STANDARD mode
You receive standard picture and sound quality. Any video or audio adjustments you made ("Adjusting the TV," pp. 40 – 48) are cancelled and the original factory settings are restored.

When you select MOVIE mode
You receive a finely detailed picture, and a theatrical audio effect.
To further adjust picture and sound qualities, follow the instructions on pp. 40 – 48.

When you select SPORTS mode
You receive a vivid, bright picture, and sound with a sports stadium effect.
To further adjust picture and sound qualities, follow the instructions on pp. 40 – 48.

When you select NEWS mode
Picture noise is reduced, and you receive clear voice reproduction.
To further adjust picture and sound qualities, follow the instructions on pp. 40 – 48.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to " ↩ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

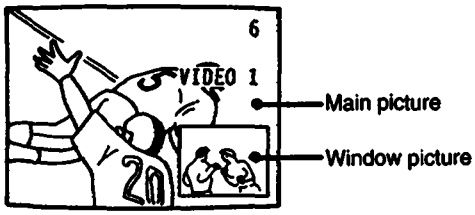
To return to the normal screen
Press MENU on the Remote Commander.

Watching Two Pictures at Once (PIP)

You can watch both the main picture and a window picture simultaneously, using the Picture-in-Picture (PIP) function.

Models KV-27XBR35/32XBR35 are equipped with two-tuner PIP, allowing you to watch two TV channels at once.

Models KV-27XBR25/32XBR25 are equipped with one-tuner PIP. To watch two TV channels, you must first connect a VCR to the TV, to watch a second TV channel through the VCR tuner. (See "Connecting Other Equipment," pp. 13 – 14.)



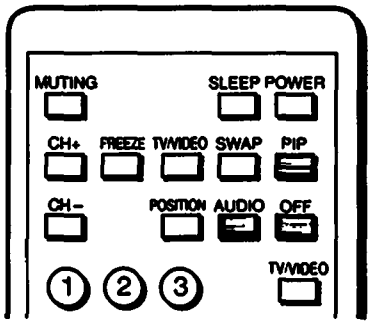
Picture-in-Picture special features

When watching the main picture and a window picture, you can:

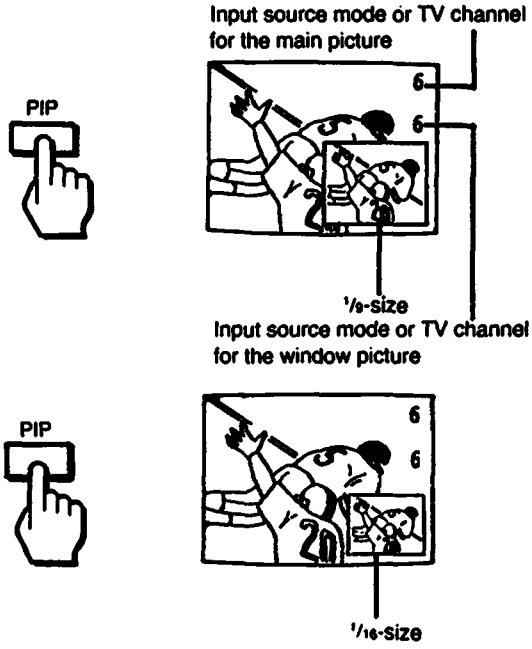
- Swap the main and window pictures (SWAP).
- Change the position of the window picture (POSITION).
- Display a still picture (FREEZE).
- Choose the sound from the main or window picture (AUDIO).
- Listen to the window picture sound through the supplied cordless headphones (HEADPHONES). (KV-27XBR35/32XBR35 only)

Displaying a window picture

Remote Commander



Press PIP to display a window picture



A window picture appears in the last mode you watched. Each time you press PIP, a 1/9 or 1/16 size window picture appears alternately.

To turn PIP function off

Press OFF.

The window picture disappears.

Notes

- The window picture sound is also output from the VAR. AUDIO OUT jacks. The AUDIO LINE OUT and MONITOR OUT jacks output the main picture sound only.
- The video label and channel caption will not appear with the window picture even if you have set them.
- If you select a blocked channel in the window picture, the display "BLOCKED" appears with the window picture. (See "Setting CHANNEL BLOCK," pp. 58 – 59.)

To receive the window picture sound

Press AUDIO.

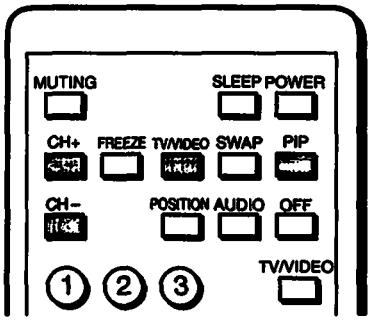
The ♪ display appears for a few seconds, indicating that the window picture sound is being received.

To restore the main picture sound

Press AUDIO again.

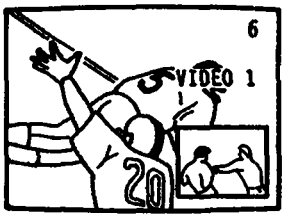
Changing the window picture input mode

Remote Commander



1 Press PIP to display a window picture.

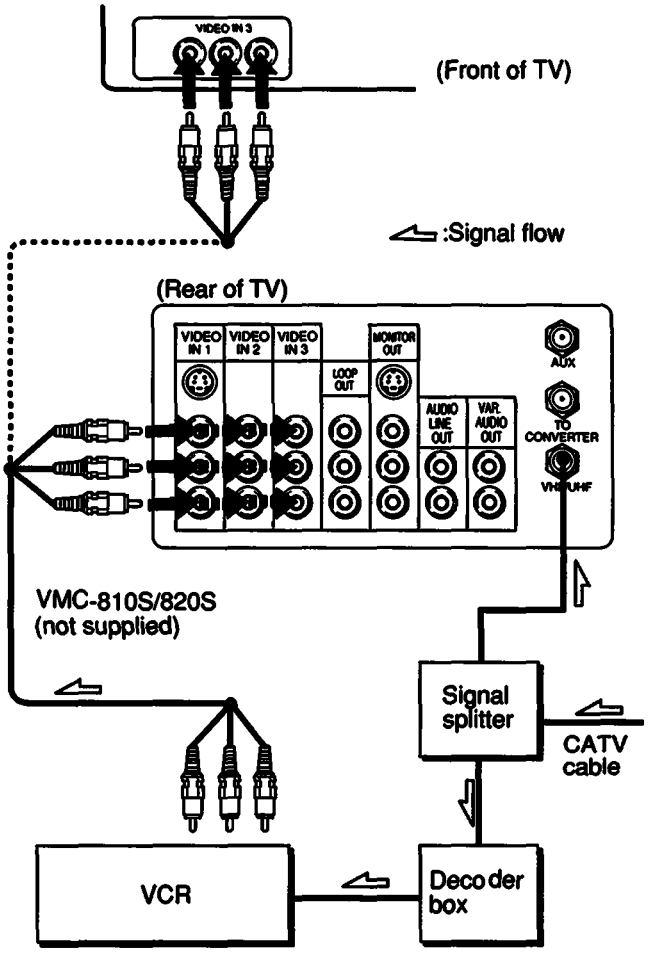
2 Press TV/VIDEO in the Picture-in-Picture control area to select the input mode.
Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence.



To change TV channels in the window picture
Press CH +/– in the PIP control area.

Displaying CATV input as a window picture

To use Picture-in-Picture with pay cable TV input, make the connections to your cable converter box as shown below.



After making the above connections, turn the cable connection on by following the steps on pp. 22 – 23; then continue with the steps below.

1–2 Follow steps 1 – 2 in "Changing the window picture input mode" on this page to select the video input mode for your connected VCR.

3 Put your VCR on an inactive channel (channel 3 or 4).

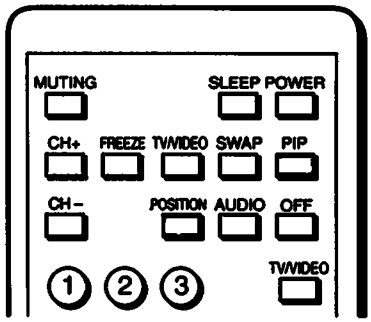
4 Change pay cable TV channels with the decoder box.

To control your cable converter box with the supplied Remote Commander
See p. 66.

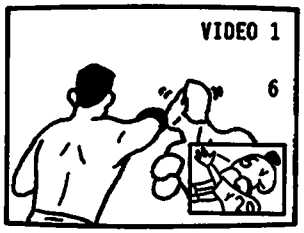
Changing the position of the window picture

Follow these instructions to change the position of the window picture on the screen.

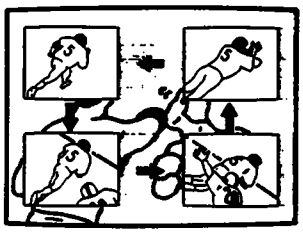
Remote Commander



1 Press PIP to display a window picture.



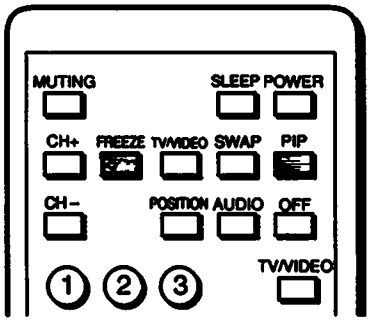
2 Press POSITION.
Each time you press POSITION, the window picture moves as illustrated.



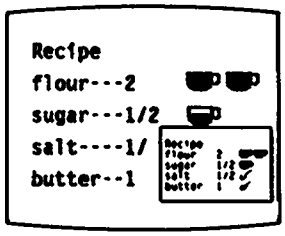
Displaying a still picture

Use the FREEZE function to display a still picture. This function is useful when you want to write down a recipe from a cooking program, a displayed address or phone number and so on.

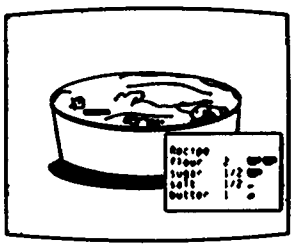
Remote Commander



1 Press PIP to display a window picture.



2 Press FREEZE.
The window picture image remains still on the screen.

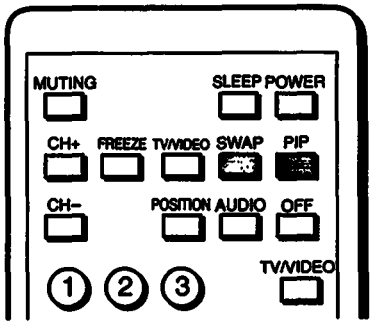


To restore the normal picture
Press FREEZE again.

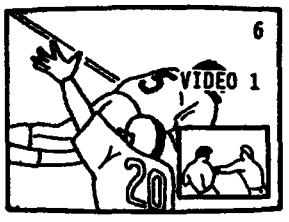
Swapping the main and window pictures

Follow these instructions to swap the input signals of the main and window pictures.

Remote Commander

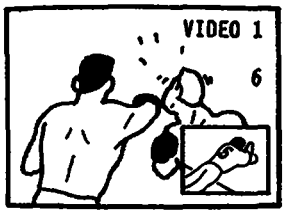


1 Press PIP to display a window picture.



2 Press SWAP.

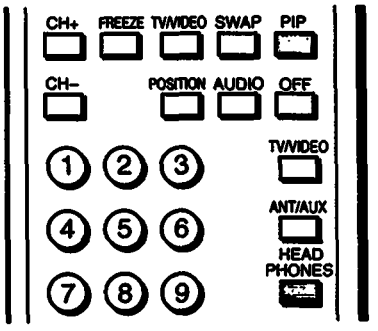
Each time you press SWAP, the images from the main and window pictures switch places.



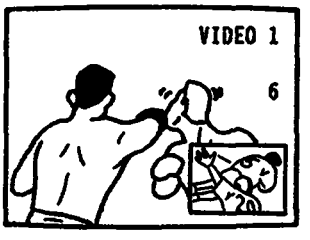
Selecting the headphones audio source (KV-27XBR35/32XBR35 only)

Follow these instructions to select the audio source that you want to receive through the supplied cordless headphones (main or window picture). If you want to listen to sound from the window picture, make sure that the sound from the window picture is being received (p. 36).

Remote Commander (RM-Y113)



1 Press PIP to display a window picture.



2 Press HEADPHONES.

Each time you press HEADPHONES, the audio source changes to main picture, window picture and "OFF" in sequence.

The ∩ display appears with the input mode.

Notes

- **If you turn PIP function off, the sound from the cordless headphones changes to the main picture sound.**
- **If you turn off the TV, the next time you turn on the TV the headphones are off.**

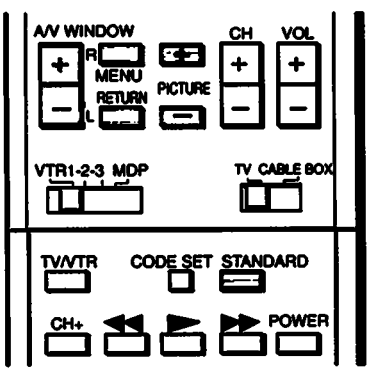
Adjusting the TV

You can adjust the picture and sound for each input mode (TV, VIDEO 1, VIDEO 2, VIDEO 3) by pressing TV/VIDEO on the TV or on the Remote Commander to select the input mode, before making the adjustments. These adjustments are retained in memory even when you turn off the TV, but are cancelled after you change the adjustments, or select a picture and sound mode (pp. 34 – 35).

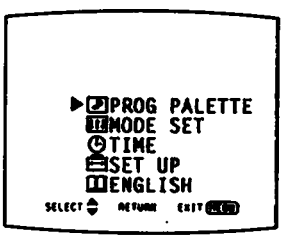
Adjusting the picture

Follow these instructions to adjust PICTURE, HUE, COLOR, BRIGHT (brightness) and SHARP (sharpness).

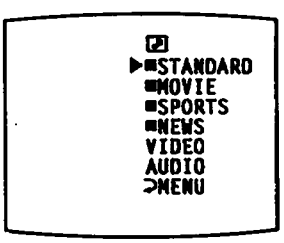
Remote Commander (with video control cover open)



1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

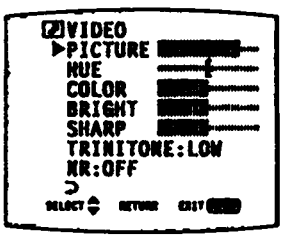


2 Press RETURN.
The program palette menu appears.



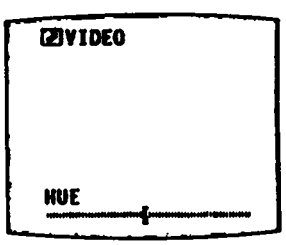
3 Press A/V WINDOW +/– until the cursor points to "VIDEO."

4 Press RETURN.
The VIDEO screen appears.



5 Press A/V WINDOW +/– until the cursor points to the item you want to adjust.

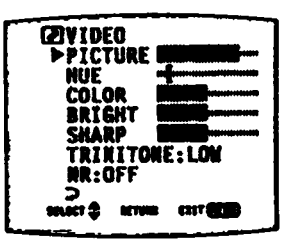
6 Press RETURN.
The adjustment screen appears.



7 Press A/V WINDOW +/– to make the adjustment.

Picture quality	Press A/V WINDOW –	Press A/V WINDOW +
PICTURE	For decreased picture contrast with soft color	For increased picture with vivid color
HUE	Skin tones become purplish	Skin tones become greenish
COLOR	For less color intensity	For more color intensity
BRIGHT	For less brightness	For more brightness
SHARP	For less sharpness	For more sharpness

8 Press RETURN.
The adjustment is complete, and the VIDEO screen automatically reappears.



To adjust other items
Repeat steps 5 – 8.

To restore the factory settings for all the items
Select "STANDARD" on the program palette menu, and press RETURN;
or, press STANDARD on the Remote Commander.
All the items, including TRINITONE (p. 42) and NR (p. 43) return to their original factory settings.

To adjust picture contrast
You can also adjust picture contrast with the PICTURE +/– buttons on the Remote Commander.

Press + to increase picture contrast with vivid color.
Press – to decrease picture contrast with soft color.
The picture adjustment screen appears.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to
" ⊃ MENU."
Then press RETURN.

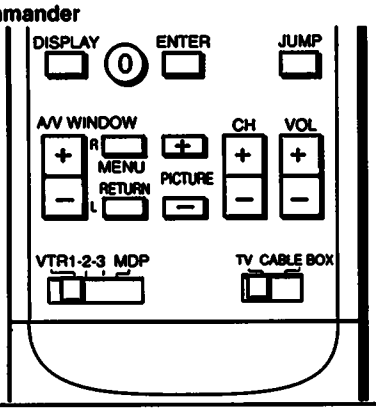
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Setting the TRINITONE mode

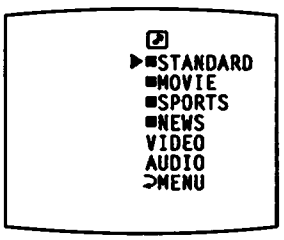
Color picture tubes are usually manufactured with a fixed color temperature (tint) that determines the "warmth" (red tint) or "coolness" (blue tint) of the picture. Use the Sony Trinitone feature to adjust the picture color to your preference.

Remote Commander



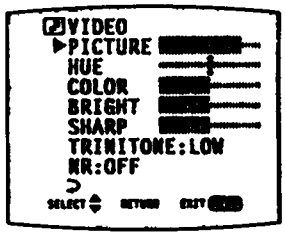
1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

2 Press RETURN.
The program palette menu appears.



3 Press A/V WINDOW +/– until the cursor points to "VIDEO."

4 Press RETURN.
The VIDEO screen appears.



5 Press A/V WINDOW +/– until the cursor points to "TRINITONE."

6 Press RETURN.
The mode display turns red.

7 Press A/V WINDOW +/– to select "HIGH" or "LOW."

Select "HIGH" to make the picture cool (bluish).
Select "LOW" to make the picture warm (reddish).

8 Press RETURN.
The setting is complete.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to "↩ MENU."
Then press RETURN.

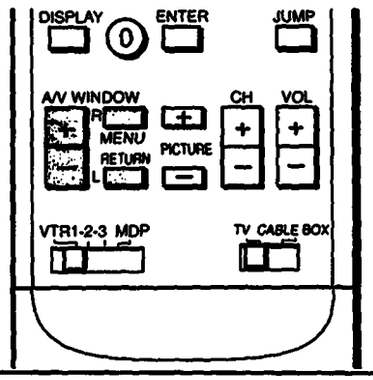
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Setting NR (picture noise reduction) ON or OFF

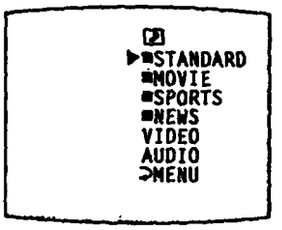
Follow these instructions to reduce picture noise.

Remote Commander



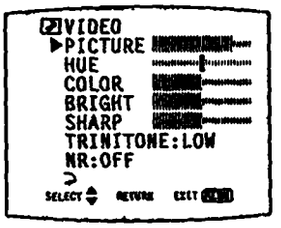
1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

2 Press RETURN.
The program palette menu appears.

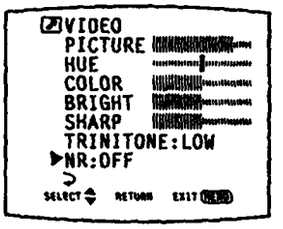


3 Press A/V WINDOW +/– until the cursor points to "VIDEO."

4 Press RETURN.
The VIDEO screen appears.



5 Press A/V WINDOW +/– until the cursor points to "NR."



6 Press RETURN.
The mode display turns red.

7 Press A/V WINDOW +/– to select "ON" or "OFF."

Select "ON" to reduce picture noise.
Select "OFF" to restore the normal picture.

8 Press RETURN.
The setting is complete.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to "↩ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

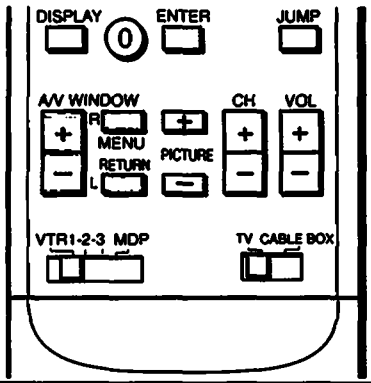
To return to the normal screen
Press MENU on the Remote Commander.

Setting S-VIDEO ON or OFF

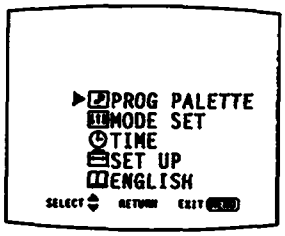
Follow these instructions to set S-VIDEO on or off, depending on the kind of video equipment you have connected to the TV. For instructions on connecting video equipment, see pp. 13 – 16.

Note
If the TV is in TV, VIDEO 2 or VIDEO 3 mode, the "S-VIDEO" display is shaded and cannot be selected.
Press TV/VIDEO on the TV or on the Remote Commander to change to VIDEO 1 mode.

Remote Commander

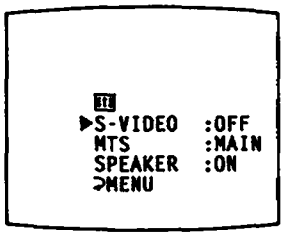


1 Press MENU.
The main menu appears.



2 Press A/V WINDOW +/– until the cursor points to "MODE SET."

3 Press RETURN.
The mode set menu appears, with the cursor pointing to "S-VIDEO."



4 Press RETURN.
The mode display turns red.

5 Press A/V WINDOW +/– to select "ON" or "OFF."

6 Press RETURN.
The setting is complete.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to "↩ MENU."
Then press RETURN.

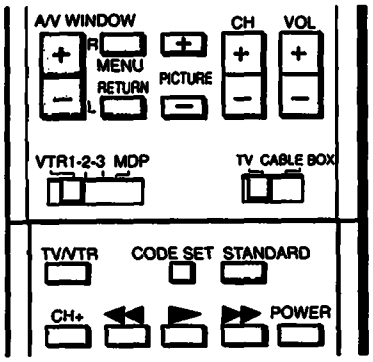
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

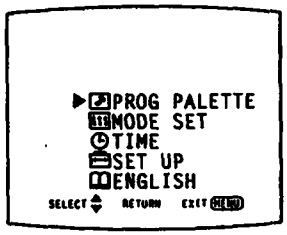
Adjusting the sound

Follow these instructions to adjust the TREBLE, BASS and BALANCE.

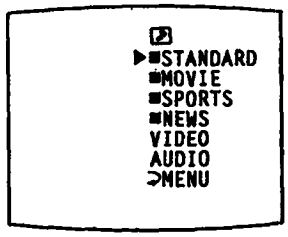
Remote Commander (with video control cover open)



1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

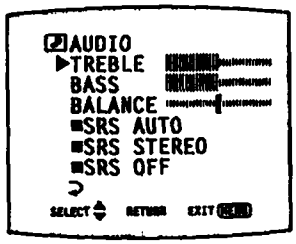


2 Press RETURN.
The program palette menu appears.



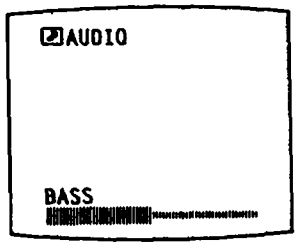
3 Press A/V WINDOW +/– until the cursor points to "AUDIO."

4 Press RETURN.
The AUDIO screen appears.



5 Press A/V WINDOW +/– until the cursor points to the item you want to adjust.

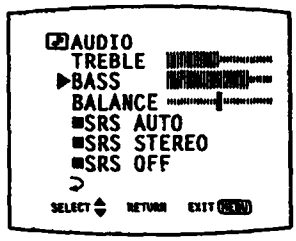
6 Press RETURN.
The adjustment screen appears.



7 Press A/V WINDOW +/– to make the adjustment.

Sound quality	Press A/V WINDOW –	Press A/V WINDOW +
TREBLE	To decrease the treble response	To increase the treble response
BASS	To decrease the bass response	To increase the bass response
BALANCE	To emphasize the left speaker's volume	To emphasize the right speaker's volume

8 Press RETURN.
The adjustment is complete, and the AUDIO screen automatically reappears.



To adjust other items
Repeat steps 5 – 9.

To restore the factory settings for all the items
Select "STANDARD" on the program palette menu, and press RETURN; or, press STANDARD on the Remote Commander.
All the items, including SRS mode (p. 46) return to their original factory settings.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to " ↩ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Selecting an SRS (Sound Retrieval System) mode

For lifelike sound reproduction, follow the instructions below to select the SRS mode you prefer.

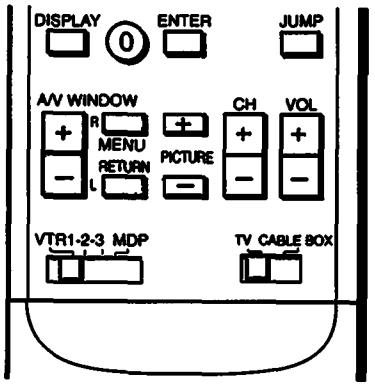
In SRS AUTO mode, SRS functions in both monaural and stereo modes.

Monaural sound programs will have a 'simulated stereo' effect.

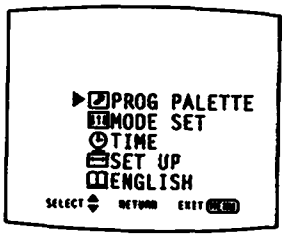
In SRS STEREO mode, SRS functions only when a stereo program is received.
The STEREO lamp on the TV lights up whenever a stereo broadcast is received.

Select SRS OFF mode to return to normal sound mode.

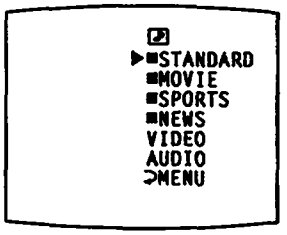
Remote Commander



1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

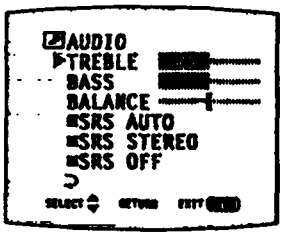


2 Press RETURN.
The program palette menu appears.



3 Press A/V WINDOW +/– until the cursor points to "AUDIO."

4 Press RETURN.
The AUDIO screen appears.



5 Press A/V WINDOW +/– until the cursor points to the SRS mode you want.

6 Press RETURN.
The mode is selected.

To change the SRS mode
Repeat steps 5 – 6.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to " ⮌ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Selecting an MTS (Multichannel TV Sound) mode

Follow these instructions to select an MTS mode.

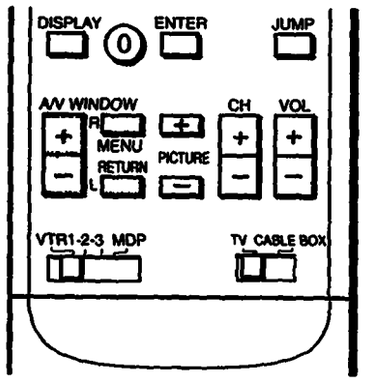
Select MAIN mode to listen to stereo sound.
The STEREO lamp on the TV lights up whenever a stereo broadcast is received.

Select SAP mode to listen to Second Audio Programs.

Select MONO mode to eliminate excessive noise during stereo broadcasts, caused by a weak incoming signal.

Note
If the TV is in video mode, the "MTS" display is shaded and cannot be selected.
Press TV/VIDEO on the TV or on the Remote Commander to change to TV mode.

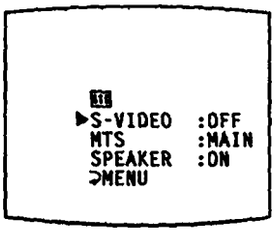
Remote Commander



1 Press MENU.
The main menu appears.

2 Press A/V WINDOW +/– until the cursor points to "MODE SET."

3 Press RETURN.
The mode set menu appears.



4 Press A/V WINDOW +/– until the cursor points to "MTS."

5 Press RETURN.
The mode display turns red.

6 Press A/V WINDOW +/– to select the mode you want.
Each time you press A/V WINDOW +/–, "MAIN," "SAP" and "MONO" appear in sequence.

7 Press RETURN.
The mode is selected.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to "⊃ MENU."
Then press RETURN.

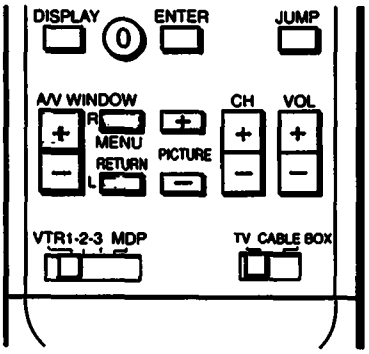
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Setting SPEAKER ON or OFF

Follow these instructions to turn the TV speakers off when you connect an audio system (p.17), and on when you want to listen to the sound from the TV speakers.

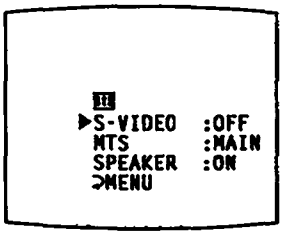
Remote Commander



1 Press MENU.
The main menu appears.

2 Press A/V WINDOW +/– until the cursor points to "MODE SET."

3 Press RETURN.
The mode set menu appears.



4 Press A/V WINDOW +/– until the cursor points to "SPEAKER."

5 Press RETURN.
The mode display turns red.

6 Press A/V WINDOW +/– to select "ON" or "OFF."

7 Press RETURN.
The setting is complete.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to "↩ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

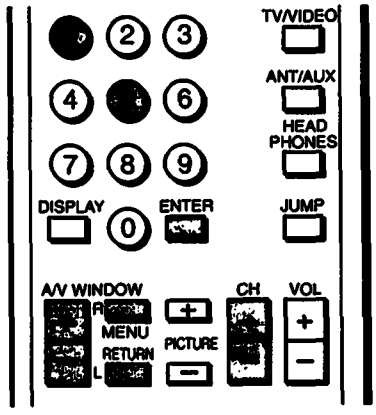
To return to the normal screen
Press MENU on the Remote Commander.

Setting channel captions — CH CAPTION

Follow these instructions to caption each channel number display with a name, for instance, the television station call letters. (You can set up to four letters or numbers).

Example: Caption channel 15 as "NBC."

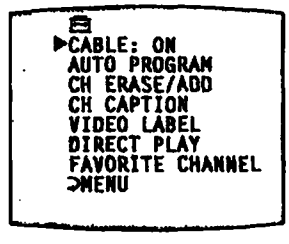
Remote Commander (RM-Y113)



1 Press MENU.
The main menu appears.

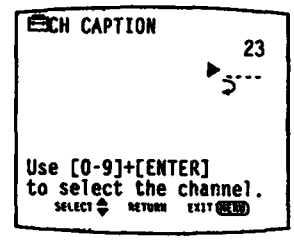
2 Press A/V WINDOW +/– until the cursor points to "SET UP."

3 Press RETURN.
The set up menu appears.

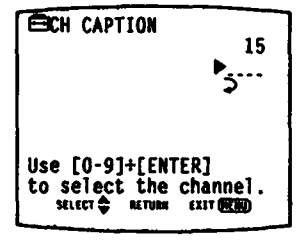


4 Press A/V WINDOW +/– until the cursor points to "CH CAPTION."

5 Press RETURN.
The CH CAPTION screen appears.

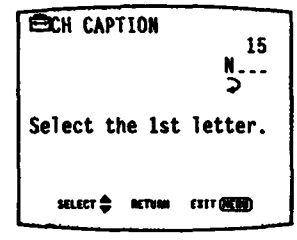


6 Press CH +/–, or press 1, 5 and ENTER to set channel "15."



7 Press RETURN.
The first caption space turns red.

8 Press A/V WINDOW +/– to select "N."
Each time you press A/V WINDOW +/–, "0" – "9," "A" – "Z," "&," "/," "-" and "_" (blank space) appear in sequence.



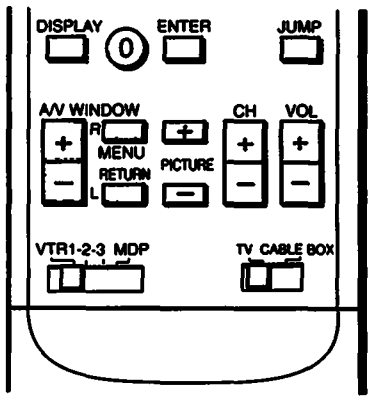
9 Press RETURN.
The second caption space turns red.

(Continued)

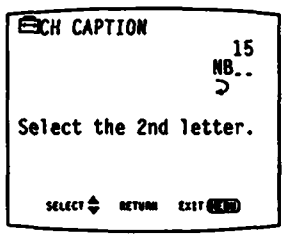
Setting channel captions – CH CAPTION

(Cont'd from prev. page)

Remote Commander

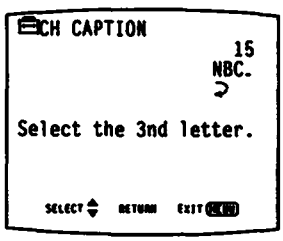


10 Press A/V WINDOW +/– to select "B."



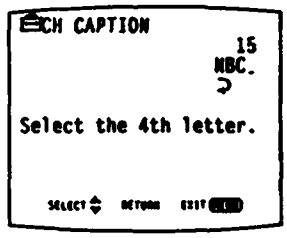
11 Press RETURN.
The third caption space turns red.

12 Press A/V WINDOW +/– to select "C."



13 Press RETURN.
The fourth caption space turns red.

14 Press A/V WINDOW +/– to select a blank space.



15 Press RETURN.
The setting is complete.
When you select or display the channel number, the channel caption also appears.

To caption more channels
Repeat steps 6 – 15.

To erase unnecessary captions
Display the CH CAPTION screen, select the channel with the caption you want to erase, and select blank spaces for the channel caption; then press RETURN.
The caption for that channel is erased.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to "⮌ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

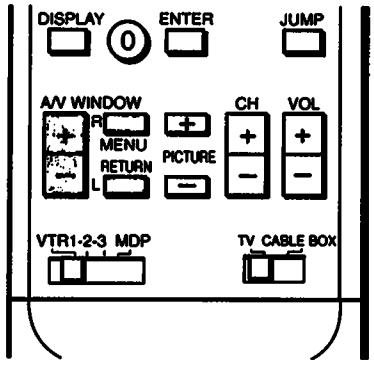
Note
You can set up to 32 channel captions. If the memory is full, "The memory is full, sorry" appears on the screen. Erase any unnecessary captions, and begin again.

Setting VIDEO LABEL

Follow these instructions to label each input mode, in order to identify the equipment connected to each input terminal.

Example: Label VIDEO IN 1 as "VHS."

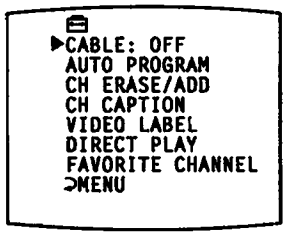
Remote Commander



1 Press MENU.
The main menu appears.

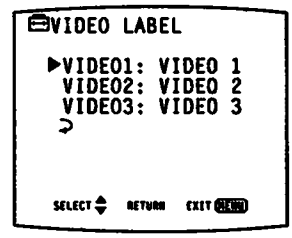
2 Press A/V WINDOW +/– until the cursor points to "SET UP."

3 Press RETURN.
The set up menu appears.



4 Press A/V WINDOW +/– until the cursor points to "VIDEO LABEL."

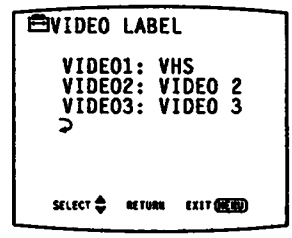
5 Press RETURN.
The VIDEO LABEL screen appears.



6 Press A/V WINDOW +/– until the cursor points to the input mode you want to label. (In this case, the cursor is already pointing to "VIDEO 1.")

7 Press RETURN.
The label display turns red.

8 Press A/V WINDOW +/– to select "VHS."



Each time you press A/V WINDOW +/–, the label changes:

VIDEO 1
VIDEO 1 → BETA → 8mm → VHS → LD → S-VIDEO

VIDEO 2
VIDEO 2 → BETA → 8mm → VHS → LD

VIDEO 3
VIDEO 3 → BETA → 8mm → VHS → LD

9 Press RETURN.
The setting is complete.
When you select or display the video mode, the video label appears.

To label other input modes
Repeat steps 6 – 9.

To change a label
Same as above.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to " ⮌ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Using Timer-Activated Functions

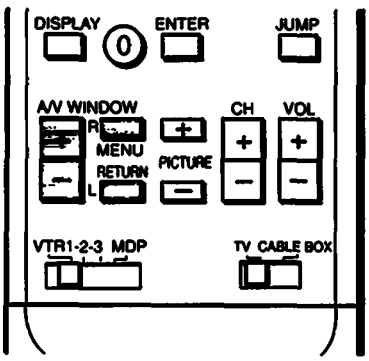
Setting DAYLIGHT SAVING

If you live in an area that uses daylight savings time, set DAYLIGHT SAVING to "YES" or "NO" depending on the season, before setting the current time. At the next daylight savings date, you will be able to automatically adjust all the time-related settings (CURRENT TIME, ON/OFF TIMER and CHANNEL BLOCK) simply by changing the DAYLIGHT SAVING setting.

When setting DAYLIGHT SAVING:

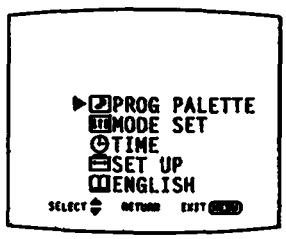
- **After the first Sunday in April (spring daylight savings)**
  Set to "YES" before setting the current time.
  Then, on the last Sunday in October (fall daylight savings), set to "NO."
  All the time-related settings automatically move one hour back.
- **After the last Sunday in October (fall daylight savings)**
  Set to "NO" before setting the current time.
  Then, on the first Sunday in April (spring daylight savings), set to "YES."
  All the time-related settings automatically move one hour ahead.

Remote Commander



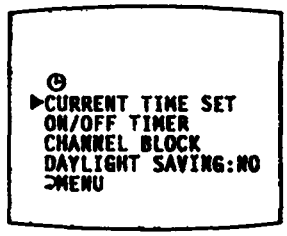
Follow these instructions to set DAYLIGHT SAVING to "YES" or "NO."

1 Press MENU.
The main menu appears.



2 Press A/V WINDOW +/– until the cursor points to "TIME."

3 Press RETURN.
The time menu appears.



4 Press A/V WINDOW +/– until the cursor points to "DAYLIGHT SAVING."

5 Press RETURN.
The mode display turns red.

6 Press A/V WINDOW +/– to select "YES" or "NO."

7 Press RETURN.
The setting is complete.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to "↩ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

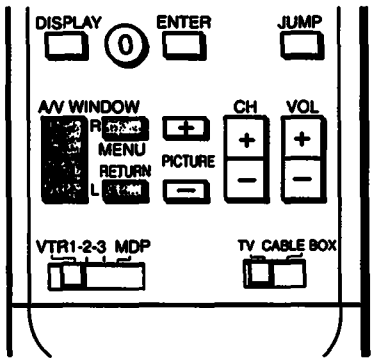
To return to the normal screen
Press MENU on the Remote Commander.

Setting the clock — CURRENT TIME SET

Follow these instructions to set the current time. The correct current time must be set in order to use the other time-related functions (DAYLIGHT SAVING, ON/OFF TIMER, CHANNEL BLOCK).

Example: Set the time to 3:15 PM, Monday.

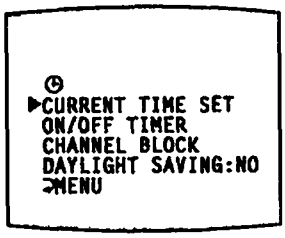
Remote Commander



1 Press MENU.
The main menu appears.

2 Press A/V WINDOW +/– until the cursor points to "TIME."

3 Press RETURN.
The time menu appears, and the cursor points to "CURRENT TIME SET."



4 Press RETURN again.
The CURRENT TIME SET screen appears, with a reminder to set DAYLIGHT SAVING.

If you do not need to set DAYLIGHT SAVING, press RETURN and continue from step 5.

To set daylight saving

a Press A/V WINDOW +/– until the cursor points to "DAYLIGHT SAVING."

b Press RETURN.
The time menu appears, and the cursor points to "DAYLIGHT SAVING."

c Press RETURN.

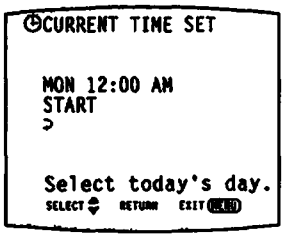
d Press A/V WINDOW +/– to select "YES" or "NO."

e Press RETURN.
The setting is complete.

To set the time, press A/V WINDOW +/– until the cursor points to "CURRENT TIME SET"; press RETURN, then continue from step 5.

5 Press RETURN.
The CURRENT TIME SET screen appears, and the "SUN" display appears (red).

6 Press A/V WINDOW +/– to select "MON."
Each time you press A/V WINDOW +/–, the day changes consecutively.

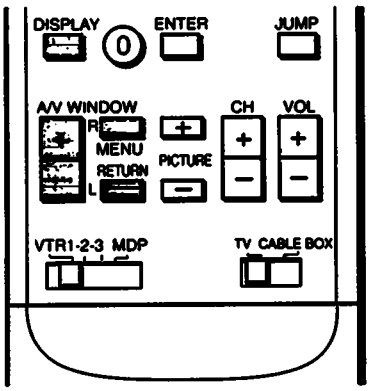


(Continued)

Setting the clock — CURRENT TIME SET

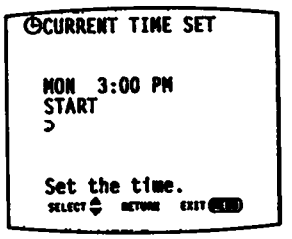
(Cont'd from prev. page)

Remote Commander



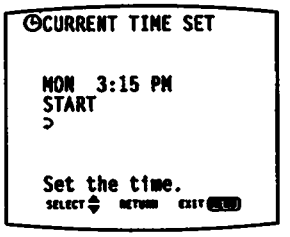
7 Press RETURN.
The hour and am/pm displays turn red.

8 Press A/V WINDOW +/– to set "3:00PM."
Each time you press A/V WINDOW +/–, the hour changes in sequence beginning with "12:00AM."



9 Press RETURN.
The minute display turns red.

10 Press A/V WINDOW +/– to select "15" (minutes).
Each time you press A/V WINDOW +/–, the minutes change in sequence.



11 Press RETURN.
The cursor points to "START."

12 Check the actual time, and press RETURN to start the clock.
The setting is complete.

To reset the time
Display the CURRENT TIME SET screen and repeat steps 5 – 12.

To display the current time
Press DISPLAY.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to " ↩ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

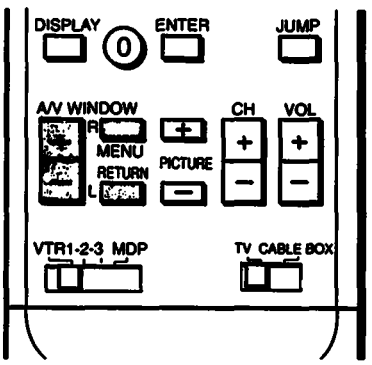
To return to the normal screen
Press MENU on the Remote Commander.

Setting the ON/OFF TIMER

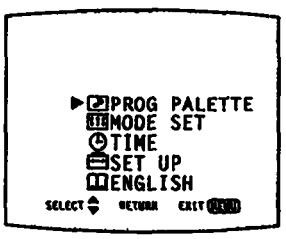
Follow these instructions to make the program of your choice appear on the screen at a specified time.

Example: Set the timer to turn on the TV every Monday through Friday at 1:30 AM for 3 hours, on channel 8, as PROGRAM 1. (You can set up to three programs.)

Remote Commander

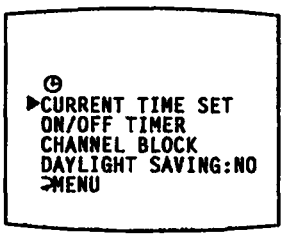


1 Press MENU.
The main menu appears.



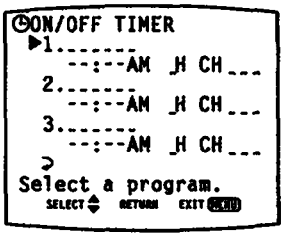
2 Press A/V WINDOW +/– until the cursor points to "TIME."

3 Press RETURN.
The time menu appears.



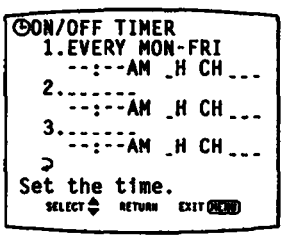
4 Press A/V WINDOW +/– until the cursor points to "ON/OFF TIMER."

5 Press RETURN.
The ON/OFF TIMER screen appears, and the cursor points to "1."

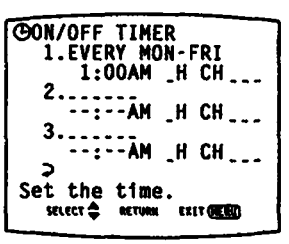


6 To set program 1, press RETURN.
(To set program 2 or 3, press A/V WINDOW +/– until the cursor points to that program; then press RETURN.)
The day input space turns red.

7 Press A/V WINDOW +/– to select "EVERY MON-FRI"; then press RETURN.
Each time you press A/V WINDOW +/–, the days of the week change as shown in Fig. 1 (p. 57).



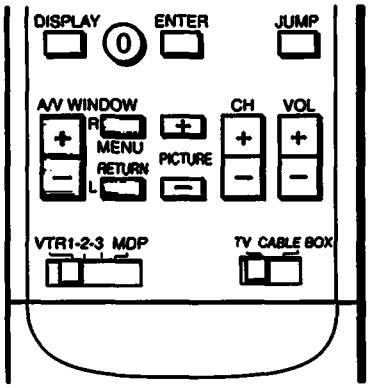
8 Press A/V WINDOW +/– to select "1:00AM"; then press RETURN.
Each time you press A/V WINDOW +/–, the hour changes in sequence.



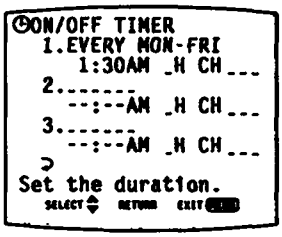
(Continued)

Setting the ON-OFF TIMER *(Cont'd from prev. page)*

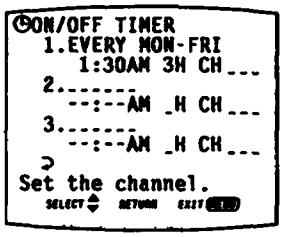
Remote Commander



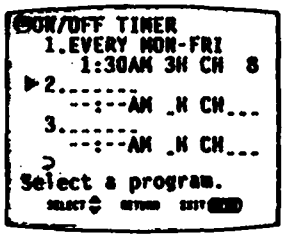
9 Press A/V WINDOW +/– to select "30" (minutes); then press RETURN.
Each time you press A/V WINDOW +/–, the minutes change in sequence.



10 Press A/V WINDOW +/– to select "3" (hour duration); then press RETURN.
Each time you press A/V WINDOW +/–, the duration changes from "1" – "6" in sequence.



11 Press A/V WINDOW +/– to select "8" (channel); then press RETURN.
The TIMER lamp lights, indicating that the setting is complete.
Each time you press A/V WINDOW +/–, the channel number changes from 1 – 125 in sequence.



The display "TIMER WILL BE OFF" appears on the screen one minute before the timer duration ends.

To set program 2 or 3.
Press RETURN and repeat steps 6 – 11.

To erase an ON/OFF TIMER setting
Display the ON/OFF TIMER screen, select the setting you want to erase, and select a blank space for the day.
The ON/OFF TIMER setting is erased.

To enter a new ON/OFF TIMER setting
Display the ON/OFF TIMER screen and repeat steps 6 – 11.

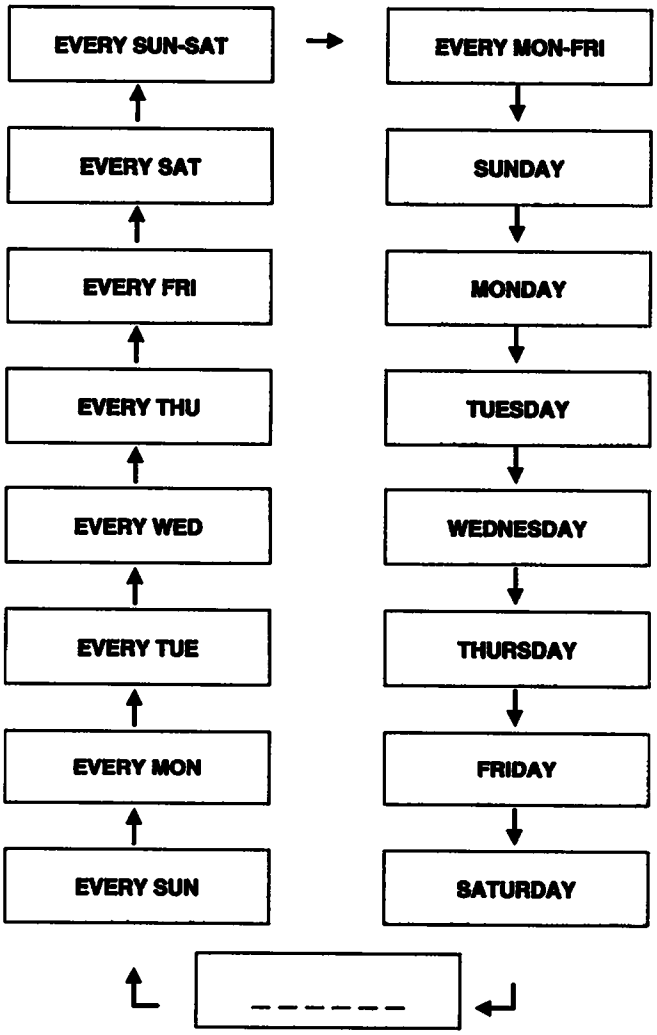
To return to the previous menu
Press A/V WINDOW +/– until the cursor points to " ↩ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Note
If you unplug the TV or a power failure occurs, both the clock and timer settings will be erased. Reset the current time; then set the timer.

Fig. 1
Selecting the day(s) of the week
When you press A/V WINDOW +, the days of the week appear in the following order:

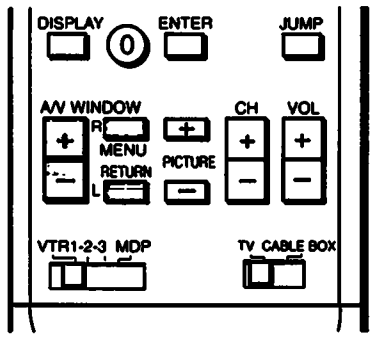


Setting CHANNEL BLOCK

Follow these instructions to prevent a channel from appearing on the screen during the time that you specify. You can use this function to prevent children from watching unsuitable programs.

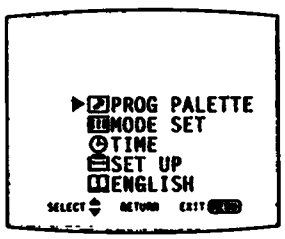
Example: Set CHANNEL BLOCK every Saturday at 4:30 PM for 1 hour, on Channel 12.

Remote Commander



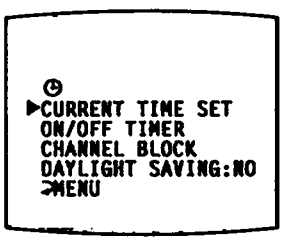
Note
If you have not set the current time, the "CHANNEL BLOCK" display is shaded and cannot be selected.

1 Press MENU.
The main menu appears.



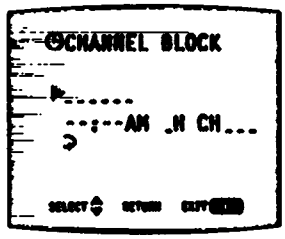
2 Press A/V WINDOW +/– until the cursor points to "TIME."

3 Press RETURN.
The time menu appears.



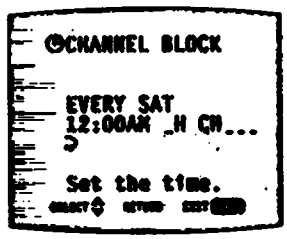
4 Press A/V WINDOW +/– until the cursor points to "CHANNEL BLOCK."

5 Press RETURN.
The CHANNEL BLOCK screen appears, and the cursor points to the day input space.

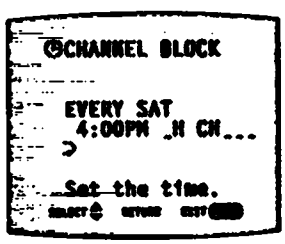


6 Press RETURN.
The day input space turns red.

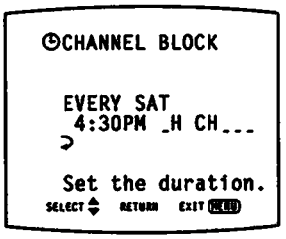
7 Press A/V WINDOW +/– to select "EVERY SAT"; then press RETURN.
Each time you press A/V WINDOW +/–, the days of the week change as shown in Fig. 1 (p. 57).



8 Press A/V WINDOW +/– to select "4:00PM"; then press RETURN.
Each time you press A/V WINDOW +/–, the hour changes in sequence.

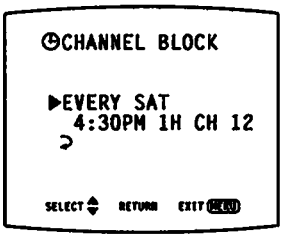


9 Press A/V WINDOW +/– to select ":30" (minutes); then press RETURN.
Each time you press A/V WINDOW +/–, the minutes change in sequence.

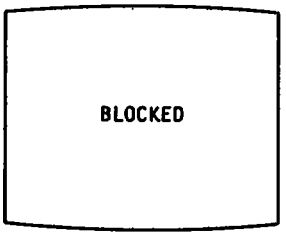


10 Press A/V WINDOW +/– to select "1" (hour duration); then press RETURN.
Each time you press A/V WINDOW +/–, the duration changes from "1" – "6" in sequence.

11 Press A/V WINDOW +/– to select "12" (channel); then press RETURN.
The setting is complete.
Each time you press A/V WINDOW +/–, the channel number changes from "1" – "125" in sequence.



At the specified time, "BLOCKED" appears in red on the screen, and the picture of the specified channel is blocked and the sound is muted.



To erase a CHANNEL BLOCK setting
Display the CHANNEL BLOCK screen, select the setting you want to erase, and select a blank space for the day.
The CHANNEL BLOCK setting is erased.

To enter a new CHANNEL BLOCK setting
Display the CHANNEL BLOCK screen and repeat steps 4 – 10. (You can only set one CHANNEL BLOCK at a time.)

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to " ⊃ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

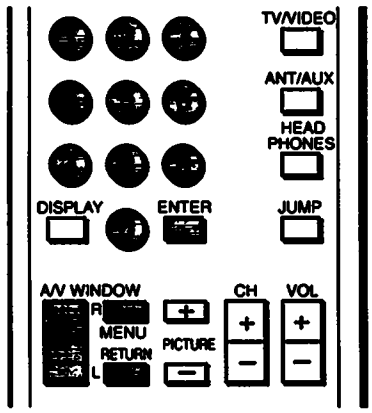
To return to the normal screen
Press MENU on the Remote Commander.

Note
If the ON/OFF TIMER is set for an overlapping time (pp. 55 – 57), the later time setting takes precedence. For example, if CHANNEL BLOCK is set for 2:00 PM and ON/OFF TIMER is set for 3:00 PM, ON/OFF TIMER will take effect at 3:00 PM.

Setting FAVORITE CHANNEL

By setting FAVORITE CHANNEL, you can select the channels you use most frequently (up to seven channels) simply by pressing RETURN on the Remote Commander.

Remote Commander (RM-Y113)

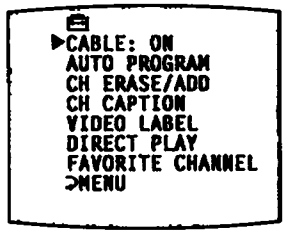


Follow these instructions to set the channels.

1 Press MENU.
The main menu appears.

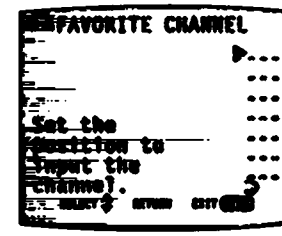
2 Press A/V WINDOW +/– until the cursor points to "SET UP."

3 Press RETURN.
The set up menu appears.



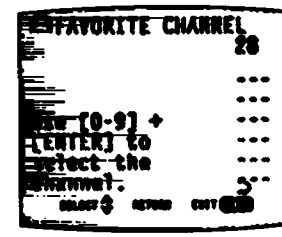
4 Press A/V WINDOW +/– until the cursor points to "FAVORITE CHANNEL."

5 Press RETURN.
The FAVORITE CHANNEL screen appears, and the cursor points to the first channel position.



6 Press A/V WINDOW +/– to select the channel position; then press RETURN.

7 Press 0 – 9 and ENTER to set the channel number.



8 Press RETURN.
The setting is complete.

To set other channels
Repeat steps 6 – 8.

To erase a favorite channel setting
Press A/V WINDOW +/– until the cursor points to the channel number you want to erase; press RETURN, then press 0 and ENTER.

To reset a favorite channel setting
Display the FAVORITE CHANNEL screen and repeat steps 6 – 8.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to "↩ MENU."
Then press RETURN.

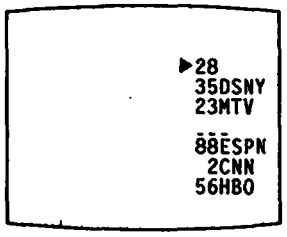
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Selecting a favorite channel

After setting the channels, follow these instructions to select the channel you want to watch.

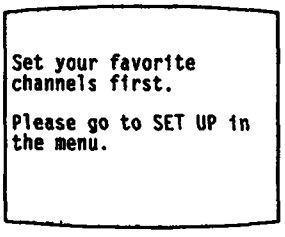
1 Press RETURN.
The FAVORITE CHANNEL display appears.



Note
If you have set channel captions (pp. 49 – 50), the captions appear with the channel numbers.

2 Press A/V WINDOW +/– to select the channel you want to watch; then press RETURN.
The channel is selected.

If you press RETURN on the Remote Commander before setting FAVORITE CHANNEL, this screen appears.



Follow steps 1 – 8 to set your favorite channels, and then make the selection.

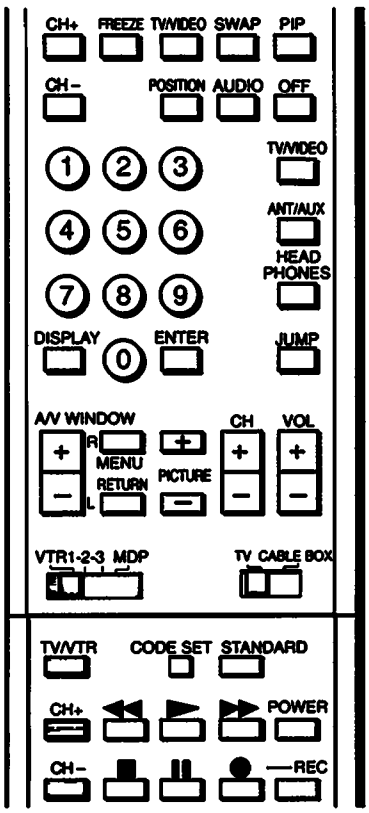
Using the Pre-Programmed Remote Commander

You can operate other video equipment (such as VCRs, video disc players and cable boxes) that have an infrared remote detector with this supplied Remote Commander.

Operating Sony video equipment

Follow these instructions to operate Sony video cassette recorders (Beta, 8 mm and VHS) and video disc players (including multi-disc players).

Remote Commander (RM-Y113)
(with video control cover open)



1 Set the VTR1-2-3 MDP selector according to the video equipment you want to operate.

Fig. 2: Video equipment settings

If you want to operate a:	set to:
Beta, ED Beta VCR	VTR 1
8 mm VCR	VTR 2
VHS VCR	VTR 3
Video disc player	MDP

2 Use the video operating buttons to control the connected equipment.

To turn on or off	Press POWER.
To change channels (when watching TV programs through the VCR's tuner)	Press CH +/–.
To record	Press ● and REC simultaneously.
To play	Press ▶.
To stop	Press ■.
To fast forward	Press ▶▶.
To rewind the tape	Press ◀◀.
To pause	Press ❚❚. *To resume normal playback, press again.*
To search the picture forward and backward	Keep pressing ▶▶ or ◀◀ during playback. *To resume normal playback, release the button.*
To change input mode	Press TV/VTR.

Fig. 4: Operating a Video Disc Player (MDP)	
To turn on or off	Press POWER.
To play	Press ▶.
To stop	Press ■.
To pause	Press ❚❚. *To resume normal playback, press again.* **Note** This function is effective only for CAV (standard-play disc). With CLV (extended-play disc), the TV goes off (standby mode) if you press ❚❚.
To search the picture forward and backward	Keep pressing ▶▶ or ◀◀ during playback. *To resume normal playback, release the button.*

Notes

- If the video equipment does not have a certain function, the corresponding button on this Remote Commander will not operate.
- If you set another manufacturer's code to a VTR1-2-3 MDP selector position (pp. 64 – 65), you must also set the Sony code to operate Sony equipment.

Caution

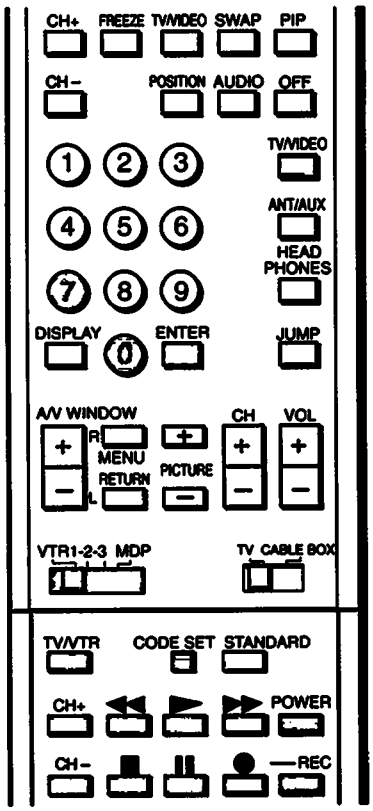
When you replace the batteries, do it within approximately 30 minutes. Otherwise the settings you made under the Pre-Programmed function (pp. 64 – 66) may be erased.

Operating non-Sony or Sony video equipment

Follow these instructions to set the manufacturer's code, which will enable you to operate non-Sony and Sony video equipment with the pre-programmed Remote Commander.

Example: Operate an RCA video cassette recorder connected to the VIDEO IN 2 jacks.

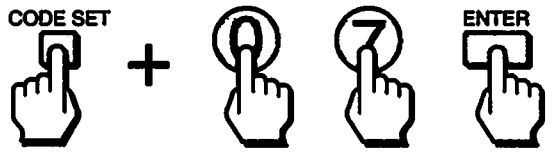
Remote Commander (RM-Y113)
(with video control cover open)



1 Set the VTR1-2-3 MDP selector to VTR2.

Note
To use another manufacturer's equipment besides a Sony VCR, set the selector to a position not being used for your Sony video equipment.

2 While pressing CODE SET, press 0, 7 and ENTER to set RCA's code number. (For manufacturer code numbers, see Figs. 5, 6 and 7 on p. 65.)



3 Use the video operating buttons to operate the connected equipment. (see Fig. 3 on p. 62 and Fig. 4 on p. 63.)

Fig. 5: VCR manufacturer code numbers

MANUFACTURER	CODE
SONY	01, 02, 03
CANON	05
EMERSON	22, 30, 33
FISHER	10, 11, 12, 15
FUNAI	29
GENERAL ELECTRIC	05, 08
GOLDSTAR	25
HITACHI	07, 08, 36
JVC	16, 35
MAGNAVOX	05, 06, 09
MITSUBISHI	18, 19, 26, 27
MULTITECH	29
NEC	16, 23, 31
PANASONIC	05, 06
PHILCO	05, 06
PHILIPS	05, 06, 09
QUASAR	05, 06
RCA	07, 08
SAMSUNG	24, 32
SANYO	11, 15
SCOTT	21
SHARP	13, 14
SHINTOM	34
SYLVANIA	05, 06, 09
SYMPHONIC	29
TEKNIKA	28, 29
TOSHIBA	20, 21
TOTE VISION	25
ZENITH	17

Fig. 6: MDP manufacturer code numbers

MANUFACTURER	CODE
SONY	04
KENWOOD	58
MAGNAVOX	52
MARANZ	54
MITSUBISHI	51
PANASONIC	55
PHILIPS	52
PIONEER	51
RCA	51
SANYO	57
SHARP	56
YAMAHA	53

Fig. 7: Sony Equipment and Code Numbers

SONY EQUIPMENT	CODE
Beta, ED Beta VCR	01
8 mm VCR	02
VHS VCR	03
Video disc player	04

Note

In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied Remote Commander. This is because your equipment may use a code that is not provided with this Remote Commander. In this case, please use the equipment's own remote control unit.

For your convenience

Write the manufacturer name and code number for your equipment onto one of the supplied self-adhesive labels and affix the label to the Remote Commander for easy reference.

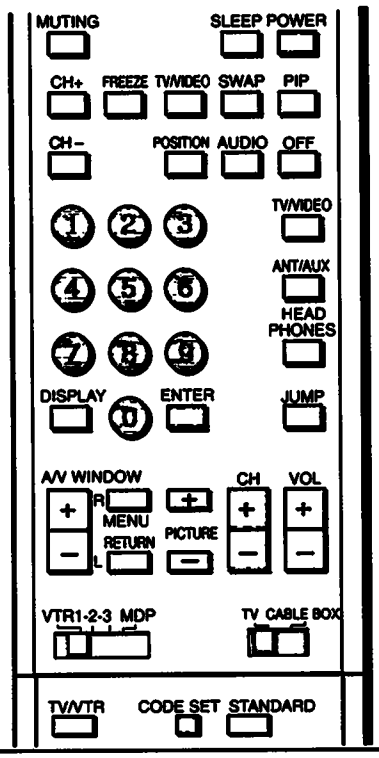
	BRAND	CODE
1		
2		
3		

Operating a cable converter box

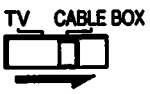
Follow these instructions to set the manufacturer's code, which will enable you to operate a connected cable converter box with the pre-programmed Remote Commander.

Example: Operate a connected Zenith cable converter box.

Remote Commander (RM-Y113)
(with video control cover open)



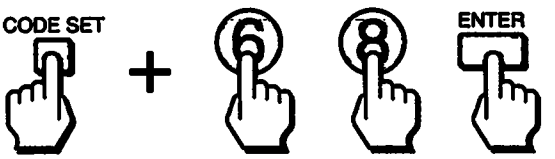
1 Set the TV/CABLE BOX selector to CABLE BOX.



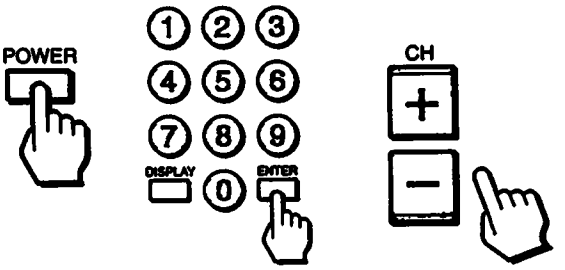
Notes

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this Remote Commander and you may not be able to operate your cable converter box with the supplied Remote Commander. In this case, use the equipment's own remote control unit.

2 While pressing CODE SET, press 6 and 8 (Zenith's code number — see Fig. 8) and ENTER.



3 Use the TV control buttons (POWER, 0 – 9, ENTER and CH +/–) to operate the cable converter box.



To return to the normal screen
Set the TV/CABLE BOX selector to TV; then use the TV control buttons to control the TV.

For more details on operating the cable box
Refer to the operating instructions that come with the cable box.

Fig. 8: Cable box manufacturer code numbers

MANUFACTURER	CODE
JERROLD	60, 61, 62, 63, 64, 65
PIONEER	69, 70
SCIENTIFIC ATLANTA	66, 67
TOCOM	71, 72
ZENITH	68

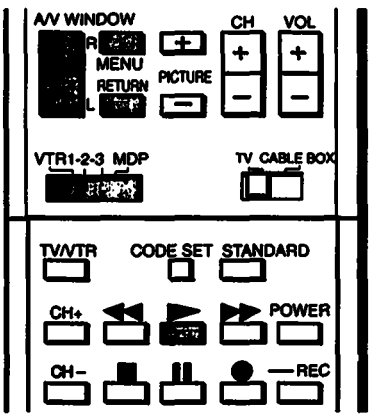
Selecting a VCR mode directly — DIRECT PLAY

Follow these instructions to switch from TV to VCR mode by simply pressing the ▶ (playback) button on the supplied Remote Commander.

Example: Connect your VCR to the VIDEO IN 1 jacks, and set the VTR1-2-3 MDP selector to VTR2. When you press ▶, the input mode changes to the VCR connected to the VIDEO IN 1 jacks.

After completing the steps below, the VTR selector position is retained in the TV's memory.

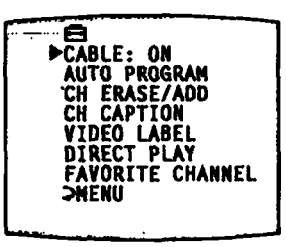
Remote Commander (with video control cover open)



1 Press MENU.
The main menu appears.

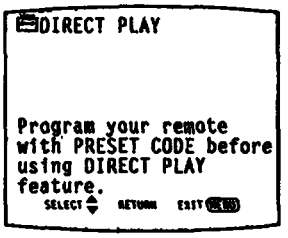
2 Press A/V WINDOW +/– until the cursor points to "SET UP."

3 Press RETURN.
The set up menu appears.



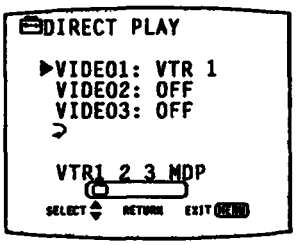
4 Press A/V WINDOW +/– until the cursor points to "DIRECT PLAY."

5 Press RETURN.
A message screen appears.



Note
This screen reminds you to set the manufacturer's code, if you have not already done so (pp. 64 – 65).

6 Press RETURN again.
The DIRECT PLAY screen appears.



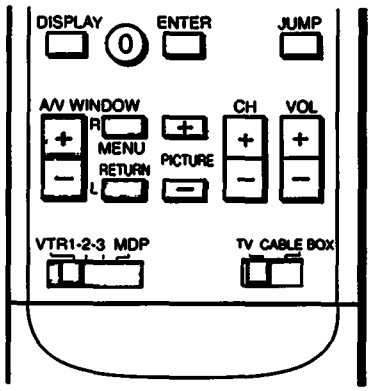
7 Press A/V WINDOW +/– until the cursor points to the video input mode. (When the video equipment is connected to VIDEO IN 1, select "VIDEO1.")

8 Press RETURN.
The mode display turns red.

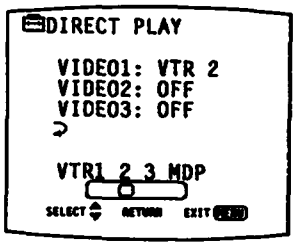
(Continued)

Selecting a VCR mode directly – DIRECT PLAY
(Cont'd from prev. page)

Remote Commander



9 Press A/V WINDOW +/– to select the VTR selector mode you have set on the Remote Commander. (When the VTR1-2-3 MDP selector is set to VTR2, select "VTR 2.")
Each time you press A/V WINDOW +/–, "VTR 1," "VTR 2," "VTR 3," "MDP" and "OFF" appear in sequence.



10 Press RETURN.
The direct play setting is complete.

To set direct play for other connected video equipment
Repeat steps 7 – 10.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to " ⊃ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Appendix

Troubleshooting

Disturbances in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed here. If the problem still cannot be solved, contact your nearest service facility.

Symptom	Possible causes and remedies
No picture (screen not lit), no sound	• Make sure POWER is switched on. • Check the power cord connection. • Check that the TV/VIDEO and VTR1-2-3 MDP controls are set correctly. • Make sure that the TV/CABLE BOX selector is set to TV.
Poor or no picture (screen not lit), good sound	• Adjust the picture using the VIDEO screen (pp. 40 – 43). • Check the antenna/cable connections.
Good picture, no sound	• Press VOLUME + on the TV or VOL + on the Remote Commander. • Press MUTING on the Remote Commander. • Check the MTS setting (p. 47). • Check that the TV/VIDEO and VTR1-2-3 MDP controls are set correctly. • Make sure SPEAKER is set to ON (p. 48).
No color for color programs	• Check the HUE and COLOR settings (pp. 40 – 41).
Snow and noise only	• Check that it is an active or correct channel. • Check the cable setting. • Check the ANT/AUX button setting (KV-27XBR35/32XBR35 only). • Check antenna/cable connections.
Dotted lines or stripes	This is often caused by local interference (for example, cars, neon signs and hairdryers). Adjust the telescopic aerial for minimum interference.
Double images or ghosts	Reflections from nearby mountains or buildings often cause this problem. Connecting a highly directional outdoor antenna or a CATV cable may improve the picture.
Try another channel. It could be station trouble.	

Specifications

Television system	American TV standards
Channel coverage	VHF: 2 – 13 UHF: 14 – 69 Cable TV: 1 – 125
Picture tube	Microblack™ Trinitron® tube 27-inch picture measured diagonally 29-inch picture tube measured diagonally (KV-27XBR25/27XBR35) 32-inch picture measured diagonally 34-inch picture tube measured diagonally (KV-32XBR25/32XBR35)
Antenna	75 ohm external antenna terminal for VHF/UHF
Input jacks	VIDEO IN 1, 2 and 3 S VIDEO IN (4-pin mini DIN) Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal) 75-ohms Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative Audio (phono jacks): 500 mVrms (100% modulation) Impedance: 47 kilohms
Output jacks	MONITOR OUT S VIDEO MONITOR OUT (4-pin mini DIN) Y: 1 Vp-p, 75-ohms unbalanced, sync negative Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative Audio (phono jacks): 500 mVrms (100% modulation) Impedance: 10 kilohms AUDIO OUTPUT (VARIABLE) (phono jacks) More than 900 mVrms (100% modulation) at the maximum volume setting (variable) Impedance: 5 kilohms AUDIO LINE OUT (phono jacks) 900 mVrms (100% modulation) Impedance: 5 kilohms
Speaker output	13W x 2
Power requirements	120 V AC, 60 Hz
Power consumption	(KV-27XBR25/27XBR35) 250 W (KV-32XBR25/32XBR35) 225 W
Dimensions (w/h/d)	(KV-27XBR25/27XBR35) Approx. 756 x 578 x 519 mm (29⅞ x 22⅞ x 20½ inches) (KV-32XBR25/32XBR35) Approx. 870 x 663 x 575.2 mm (34⅜ x 26⅛ x 22¾ inches)
Weight	(KV-27XBR25) Approx. 55.2 kg (121 lb 12 oz) (KV-27XBR35) Approx. 57.1 kg (125 lb 15 oz) (KV-32XBR25) Approx. 76.8 kg (169 lb 5 oz) (KV-32XBR35) Approx. 77.3 kg (170 lb 7 oz)
Supplied accessories	Remote Commander RM-Y113 (1) with 2 size AA (R6) EVEREADY batteries (KV-27XBR35/32XBR35) Remote Commander RM-Y112 (1) with 2 size AA (R6) EVEREADY batteries (KV-27XBR25/32XBR25) Cordless headphones TDR-IF310 (1) with 2 size AA (R6) EVEREADY batteries (KV-27XBR35/32XBR35 only)
Optional accessories	U/V mixer EAC-66 Connecting cable RK-74A VMC-810S/820S YC-15V/30V

Design and specifications are subject to change without notice.

(●) SOUND RETRIEVAL SYSTEM

The (●) Sound Retrieval System is manufactured by Sony Corporation under license from the Hughes Aircraft Company, a subsidiary of GM Hughes Electronics. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pending.

(●) , SOUND RETRIEVAL SYSTEM and SRS® are trademarks of the Hughes Aircraft Company, a subsidiary of GM Hughes Electronics.

Index

A
- Adjustment
  - audio (balance, bass, treble) 45
  - picture (bright, color, hue, sharp) 40
- ANT/AUX button 24, 30
- AUDIO LINE OUT jacks 17
- AUTO PROGRAM ..... 24 – 25
- AUX terminal 12
- A/V WINDOW buttons ..... 20 – 29, 34 – 35, 40 – 61, 67 – 68

C
- Cable TV channel chart 23
- Cable converter box 12, 37, 66
- CABLE ON/OFF ..... 22 – 23
- CH CAPTION ..... 49 – 50
- CH +/– buttons ..... 24 – 25, 27, 30, 49
- Channel
  - adding ..... 28 – 29
  - erasing ..... 26 – 27
  - presetting ..... 24 – 25
- Connecting
  - antenna cable ..... 11 – 12
  - audio system 17
  - other equipment ..... 13 – 17

D
- DEMO button 33
- DIRECT PLAY ..... 67 – 68
- DISPLAY button 32

E
- ENTER button ..... 29 – 30, 49, 64, 66

F
- FAVORITE CHANNEL ..... 60 – 61
- Front 6

H
- HEADPHONES button 33, 39

J
- JUMP button 33

L
- LOOP OUT jacks 16

M
- MONITOR OUT jacks ..... 15 – 16
- MTS mode 47
- MUTING button 32

N
- NR ON/OFF 43

O
- On-screen menus ..... 18 – 19

P
- PICTURE +/- buttons 41
- Picture and sound mode ..... 34 – 35
- Picture-in-Picture (PIP) ..... 36 – 39
- POWER button 20
- Pre-programmed Remote Commander ..... 62 – 68

R
- Rear 7

S
- S-VIDEO ON/OFF 13, 44
- SLEEP button 32
- SRS mode 46
- STEREO lamp 47
- SPEAKER ON/OFF 48
- STANDARD button 35

T
- Timer activated functions
  - channel block ..... 58 – 59
  - current time set ..... 53 – 54
  - daylight saving ..... 52 – 53
  - on/off timer ..... 55 – 56
- TIMER lamp 56
- TO CONVERTER terminal 12
- TV/CABLE BOX selector 66
- TV/VIDEO button ..... 13 – 16, 22, 24, 62, 64
- Trinitone 42

V
- VAR. AUDIO OUT jacks 17
- VCR ..... 13 – 16, 37, 51, 62 – 65, 67 – 68
- VHF/UHF antenna terminal ..... 11 – 14, 37
- VIDEO IN 1, 2, 3 jacks ..... 13 – 16, 37
- VIDEO LABEL 51
- Video operating buttons ..... 62 – 64
- VOL +/– button ..... 17, 31 – 32
- VTR1-2-3 MDP selector ..... 62 – 65

Trinitron® Color TV

KV-27XBR25 KV-27XBR35
KV-32XBR25 KV-32XBR35